



This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

- + *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.
- + *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.
- + *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.
- + *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at <http://books.google.com/>

M. E. B. A.

No. 38

PACIFIC COAST

BLUE BOOK

1903

SEATTLE, WASHINGTON.

THE BABCOCK & WILCOX

FORGED STEEL WATER TUBE

MARINE BOILERS

ARE NOW INSTALLED ON OR ORDERED FOR THE FOLLOWING STEAMERS
ON THE PACIFIC COAST:

Dirigo
Chas. Nelson
City of Naniamo
J. S. Kimball
Kvichuk
Mary D. Hume

Santa Ana
Rainier
Robert Dollar
Hueneme
Santa Barbara
Chehalis
Spokane

Noyo
Nome City
Coronado
Asuncion
Tug Shelikoff
A. H. Payson

UNITED STATES WAR VESSELS

Marietta
Tacoma
California

Alert
Milwaukee

Wyoming
Nebraska
South Dakota

Write our nearest office for information regarding
our Superheaters as used in connection with our Marine
Boilers, thereby reducing the coal consumption from 10 per
cent to 20 per cent below the usual Scotch Marine Practice.

THE BABCOCK & WILCOX CO., OF NEW YORK

Seattle Office: - - 218 Second Avenue So.

Los Angeles Office: - - 103 So. Broadway

Main Pacific Coast Office: 32 First St., San Francisco, Cal.

CHAS. C. MOORE,

Pacific Coast Mgr.

THE VULCAN IRON WORKS

MANUFACTURERS OF

MACHINERY

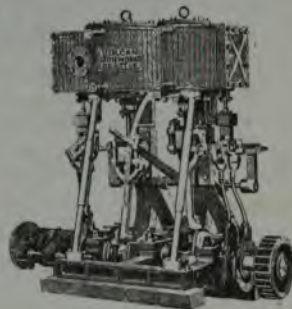
Marine, Mining and Mill Machinery

A SPECIALTY

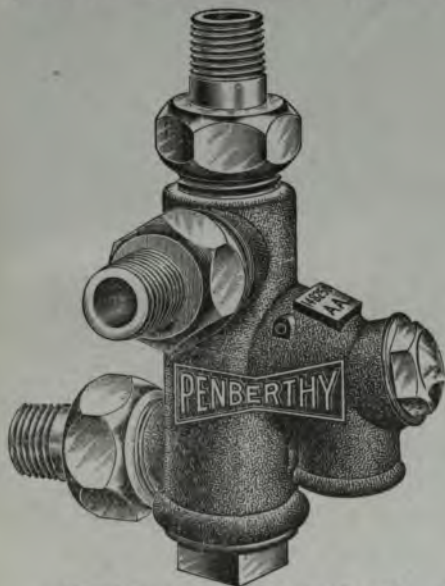
Thoroughly Equipped to Build and Overhaul
Propeller and Stern Wheel Steamers

Make the finest Propeller Wheels and
more of them than any other concern in the
Northwest.

Marine Machinery of every class.
Gold Dredgers and Rope Ways.



OUR STOCK OF SUPPLIES IS COMPLETE



Pipe and Pipe Fittings, Asbestos Goods and Pipe Covering, Peerless and Rainbow Packings, Asbestos-Metallic-Revere Spiral, Flax, Hemp, Sheet Rubber, Etc.

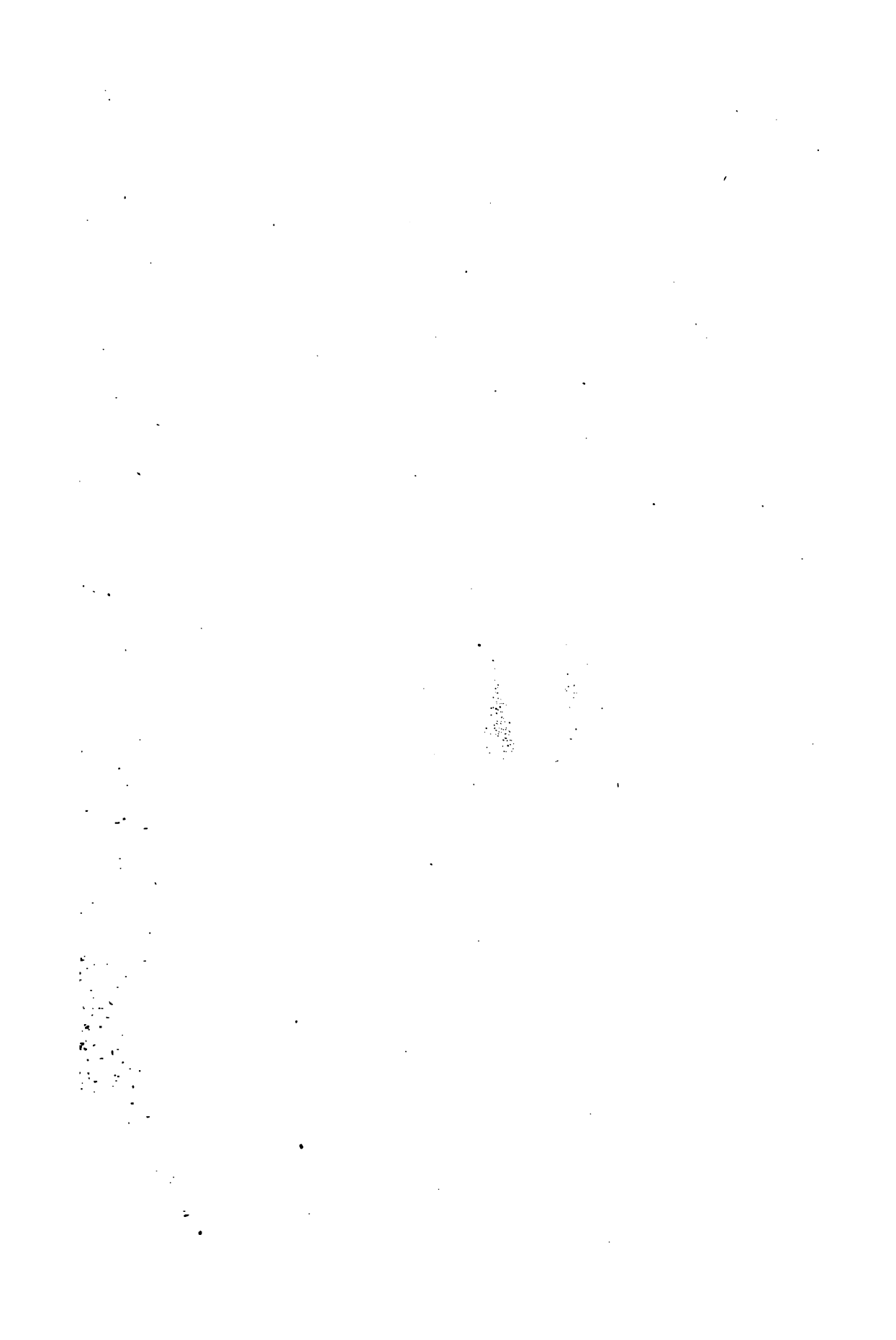
Full assortment of all classes of Vacuum, Pressure, Steam, Compound and other Gauges Lunkenheimer's & Jenkins' Valves and Goods.

All kinds of Iron and Brass Castings, Wire Rope and Fittings, Shafting, Forgings, Babbitt Metal, Etc.

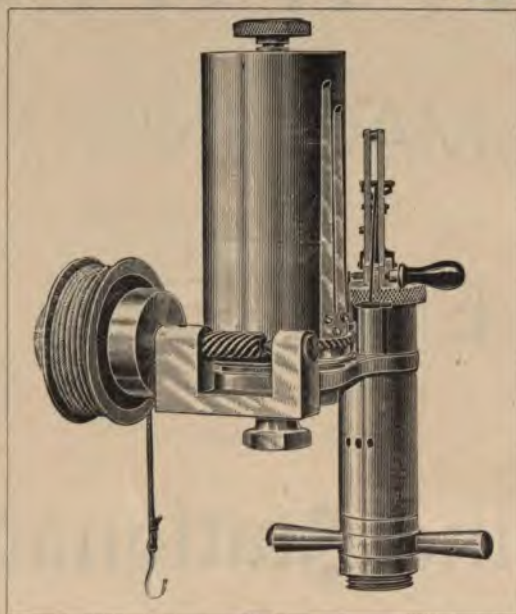
THE VULCAN IRON WORKS

Fifth Avenue, End of N. P. Freight Depot, SEATTLE, WASH.





A Friend of the Engineer



THE TABOR

Improved Navy Pattern Indicator with Houghtaling Reducing Motion.

WE ALSO HAVE OTHER FRIENDS OF YOURS, VIZ.:

RAINBOW Sheet Rubber Packing

ECLIPSE Sectional Boiler Gasket

PEERLESS Piston Packing, Etc.

WE ARE PACIFIC COAST AGENTS FOR ABOVE

And also carry a full line of Valves, Gauges, Lubricators, and the various accessories appertaining to the Engineering Trade.

DUNHAM, CARRIGAN & HAYDEN CO.

17-23 BEALE STREET
18-24 MAIN STREET

SAN FRANCISCO, - - - CALIFORNIA

Northwestern Iron Works

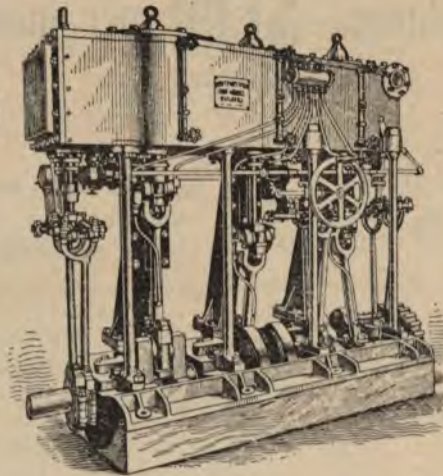
MANUFACTURERS OF

Steamboat, Mill and Mining

MACHINERY

AGENTS FOR

Mailer
Grate
Bars



MARINE,
STATIONARY
and HOISTING
ENGINES



PUMPS AND BOILERS

SAW COLLARS AND ARBORS, PULLEYS, SHAFTING,
BOXES AND SUPPLIES

SPECIAL ALASKA HOISTS, BOILERS, CENTRIFUGAL
PUMPS AND COAL OIL ENGINES

NORTHWESTERN IRON WORKS

Telephone Main 973 Water Front, Between University and Union Streets

For Advancement In Practical Engineering

6 Volumes \$1.00 per month

I.
Hawkins' New Catechism of
Electricity, price, post-
paid \$2.00

II
Hawkins' Aid to Engineers'
Examinations, price, post-
paid \$2.00
(With Questions and Answers)

III.
Hawkins' Maxims and In-
structions for Boiler Room,
price, post-paid \$2.00

IV.
Hawkins' Hand Book of Cal-
culations for Engineers,
price, post-paid \$2.00

V.
Hawkins' New Catechism of
the Steam Engine, price,
post-paid \$2.00

VI.
Hawkins' Indicator Cate-
chism, (a practical trea-
tise), price, post-paid \$1.00

Each volume is provided with a carefully arranged reference index, which places at ready command the information contained in the book on any special subject upon which immediate help is needed.

PUBLISHED BY
THE AUDEL & CO.
63 FIFTH AVENUE
NEW YORK

Marine Publishing Co.
P O. BOX 228
1323 FIRST AVENUE
SEATTLE, - WASH.

JAMES BANNAN

Machine and Shipsmith

Blacksmithing



ALL ORDERS
PROMPTLY
ATTENDED TO

TEL. MAIN 1293

1210 RAILROAD AVE.

SEATTLE, WASH.



C. M. PESSEMIER

THE LEADING DOWN-TOWN
SPECIALIST IN

Footwear

—
One of the Oldest, Most
Reliable. Boot and Shoe
Houses in the City.....

—
..C. M. PESSEMIER..

912 Second Avenue

SEATTLE - - WASH.

The Equilibrium Circulator And Steam Heating Attachment

SECTION OF APPARATUS ON LARGER SCALE THAN BOILER
ARROWS SHOW DIRECTION OF CURRENT



For Heating
and Circulating
the Water in
Steam Boilers

Increases evaporation 5 to 15 per cent. Will pay for itself in a year with saving in repairs. Keeps all parts of boiler at an even temperature. Has no extra joints to leak. Creates a constant automatic circulation as long as boiler is fed. The Steam Heating Attachment will heat and circulate the water with steam from donkey boiler in half an hour, while fires are being started, and be ready for steam with less straining than slow fires burning twelve hours.

Feed water discharging through circulator lifts cold water from bottom and discharges at surface. Either Feed or Steam Circulator may be installed without the other. Now in use in 250 boilers; 50 in use on Pacific Coast, beside 8 furnished to two new Pacific Mail Ships Siberia and Korea. Can be used in all types, Scotch, Leg, Locomotive and Stationary. Prices moderate. These attachments are beneficial to engineers and owners and should be specified in all contracts.

THE IMPROVED ANNULAR STEAM JET

FOR INDUCED DRAFT

All Sizes from 7 in. to 8 ft. have been built



SECTION OF STACK.
Showing Jet in Operation.

POWERFUL ECONOMICAL

15 to 25 per cent

Increase in Power

Designed to Suit any
Steam Pressure

40 TO 200 POUNDS NOW
USED.

Standard Jet gives $\frac{3}{4}$ to $1\frac{1}{2}$ in. draft in stack. With hoods gives 1 to $1\frac{1}{2}$ in. draft in stack. With reducer and dampers $1\frac{1}{4}$ to $2\frac{1}{2}$ in. draft in stack.



SECTION OF STACK

NEARLY 100 JETS IN USE

Cut on the right shows a section of Jet Castings, which are attached to Spider in stack, as shown by cut on the left. Number of Jet Castings varies with diameter of stack. Prices moderate. Requires no attention. Always ready for use at a moment's notice.

H. BLOOMSBURG & CO.

PATENTEES AND MANUFACTURERS

SAMUEL SUTTON, Agent,

Care of Pacific Coast Co., Seattle, Wash.

Peter Bloomsburg, senior member of this company, is a licensed engineer of 25 years' experience and a member of M. E. B. A. No. 33.

700 DOLPHIN ST., BALTIMORE, MD.

EDWIN W. TUCKER, Agent,

130-132 Main St., San Francisco, Cal.

SAN FRANCISCO,
34-36 Fremont St.

SEATTLE,
110-112 Jackson St.

PORTLAND,
29 to 35 First St.

TATUM & BOWEN

Machinery Merchants

Oldest Established House on the Coast

MARINE BOILERS

SCOTCH AND WATER TUBE

MARINE ENGINES

SIMPLE, COMPOUND AND TRIPLE-EXPANSION

Steam Pumps for all Services

SHIP MACHINERY

Winches, Capstans and Steering Gear

ALBANY GREASE

Oldest and Most Reliable Lubricating Compound on the Market

Copyrighted 1903
By H. RIEP
SEATTLE, WASH.



W. B. JACKLING
President and National Delegate



HOWARD TRUMBULL
Vice President

1903

ANNUAL BLUE BOOK

OF THE

MARINE ENGINEERS'

BENEFICIAL ASSOCIATION

⌘ No. 38 ⌘

(INCORPORATED)

OF THE

NATIONAL MARINE ENGINEERS'

BENEFICIAL ASSOCIATION

OF THE UNITED STATES

COMPILED
BY.....



FRANK FARR
PAUL BARNES
W. A. SNYDER } Com.

MARINE ENGINEERS' HALL, 73 STARR-BOYD BLDG.

SEATTLE, WASH.

PUBLISHED BY H. RIEF



PRESS OF DENNY-CORYELL CO.
SEATTLE, WASH.

SEATTLE PHONE,
MAIN 795

SAN FRANCISCO PHONE,
MAIN 1707

John Finn Metal Works

VM623
N3
1903

1255 FIRST AVENUE SOUTH
SEATTLE, WASH.

313-315 HOWARD STREET
SAN FRANCISCO, CAL.

BABBITT METALS, SOLDERS GALVANIZING AND TINNING

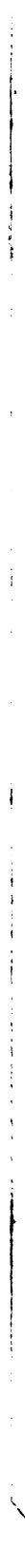
ROLLED AND CAST ZINC PLATES FOR BOILERS A SPECIALTY

JOHN FINN, ESQ., 315 Howard Street, San Francisco, Cal.

Dear Sir.—In response to your request, it gives us much gratification to state that your "F. P. Metal" was the only bearing metal used in all the engines on the U. S. Battleship "Oregon," and the results of its use were most highly satisfactory, not only upon the ship while in our hands, but we understand that the metal has continued to give the same high satisfaction ever since. Very truly yours,

UNION IRON WORKS,

By J. O'B. GUNN, Secretary.



SEATTLE
MA

1255 FI
S

ROLLE

JOHN F
Des
tion to s
in all th
its use v
our han
same hi

GREETING.

To the Public, Our Patrons and Our Employers:

In presenting this work for your consideration, we have been guided by the experience of our predecessors; and the knowledge that our patrons, whose cards appear in our pages, hope for some tangible benefit from the money so expended.

In like manner, our employers expect, and justly so, that the individual engineer will return full value for services paid for.

Marine Engineers' Beneficial Association, No. 38, Inc., was organized in 1888; and our constant aim has been to confine our membership at all times to men worthy of the public confidence in their official capacity.

The social qualifications of our members will, we confidently believe, compare favorably with that of any similar organization in the country.

Our profession being entirely controlled by legislation, we respectfully and firmly deny the assertion that we are a labor organization in the common acceptance of the term; at the same time we claim that we are a protective association, in the only true sense of the term; protective to ourselves, our employers and to the public, for in our care are thousands of human lives, and millions of capital represented by the ponderous machinery and boilers of which we have sole care.

We seek, through our Association, to constantly qualify our members for the ever growing responsibilities of the Marine Engineer of the present day, and all we ask at the hands of the public and our employers, is justice, no more, no less.

Our occupation is a dangerous one, and our efforts to care for a sick or distressed brother, or to assist the deserving family, whose sole support has been taken from them by sickness or accident, are objects worthy of encouragement.

We thankfully acknowledge our indebtedness to those who have assisted us in our efforts.

In admitting advertisements, we have selected only those of the best standing, and we recommend them to the earnest consideration of our friends, and the Craft, as being strictly reliable.

To those who have so generously assisted us by their patronage, we return our sincere thanks, for by their aid worthy objects are encouraged, and they show their appreciation of a brave and worthy body of men.

Very respectfully,

COMMITTEE.

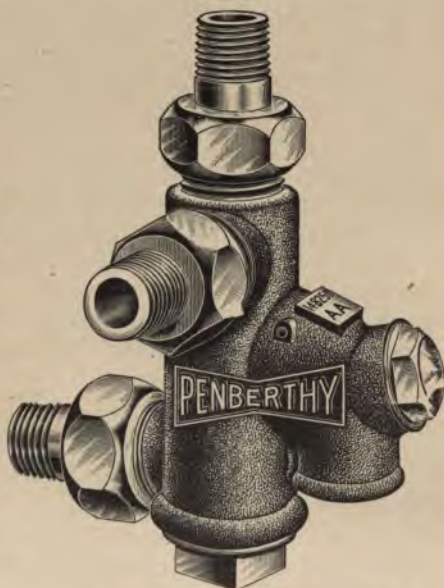
FOR SIXTEEN YEARS

THE STANDARD BOILER FEEDER OF THE WORLD



S
I
M
P
L
E

R
E
L
I
A
B
L
E



D
U
R
A
B
L
E

E
C
O
N
O
M
I
C
A
L

Automatic Injector

Working Range, 20 to 160 lbs steam.

Lifts water 20 to 22 ft. on 60 to 80 lbs steam.

Handles hot water 120 to 125 deg. on 60 to 80 lbs. steam.

ABSOLUTELY AUTOMATIC IN ACTION

and therefore especially desirable for marine use, as it works perfectly in the roughest weather, restarting automatically if current is broken by reason of sea cock being thrown above water by roll of vessel.

PENBERTHY INJECTOR CO.

342 Holden Ave.,

DETROIT, MICH.

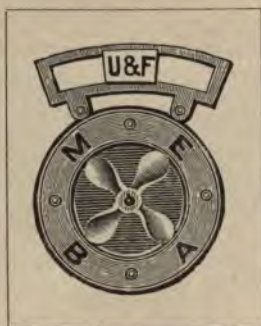
LARGEST INJECTOR MANUFACTURERS IN THE WORLD

MARINE ENGINEERS' BENEFICIAL ASSOCIATION

—NO. 38—

(INC.)

SEATTLE, WASH.



REORGANIZED 1888

MEETS EVERY THURSDAY EVENING, AT 73 STARR-BOYD BLDG.

BUSINESS MANAGER, W. H. COLLIER
TELEPHONE MAIN 821

Officers for 1903

PAST PRESIDENT	-	-	-	-	C. W. Snyder
PRESIDENT	-	-	-	-	Wm. B. Jackling
VICE PRESIDENT	-	-	-	-	Howard Trumbull
SECRETARY	-	-	-	-	W. H. Collier
TREASURER	-	-	-	-	W. A. Snyder

...Trustees...

Geo. N. Gilson

Geo. Snyder

L. J. Birdsell

...Delegates...

C. W. Snyder

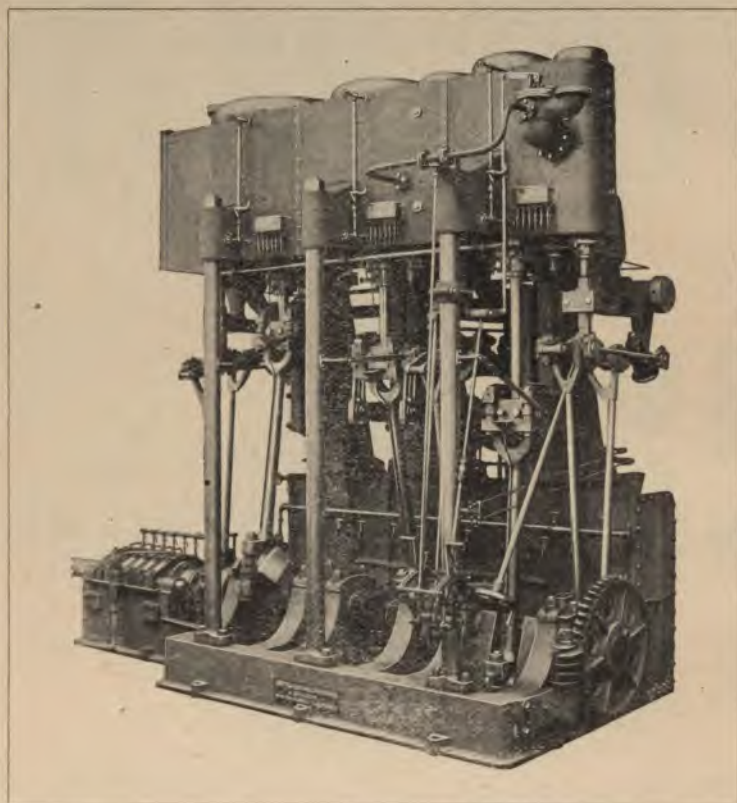
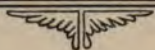
Wm. B. Jackling

...Alternates...

Frank A. Farr

Howard Trumbull

UNITED ENGINEERING WORKS



SHIPBUILDERS and ENGINEERS
Repair work promptly attended to.

OFFICE & WORKS:
254-6 Spear St., San Francisco
PHONE, MAIN 1581

SHIPYARD & WORKS:
Oakland Harbor
PHONE, BLUE 983

Members of M. E. B. A. No. 38

SEATTLE.

Antone, Nich.....	73 Starr-Boyd Bldg.
Allen, Samuel.....	528 28th Ave., Seattle
Anderson, A. A.....	1655 Bellvue Ave., Seattle
Anderson, F.....	73 Starr-Boyd Bldg.
Alexander, W. J.....	73 Starr-Boyd Bldg.
Aiken, F. J.....	U. S. Transport "Seward"
Albertson, P. A.....	73 Starr-Boyd Bldg.
Atwell, C. B.....	73 Starr-Boyd Bldg.
Allamsberger, William.....	Steamer "Bay City"
Anderson, James.....	Steamship "Senator"
Anderson, Lewis.....	73 Starr-Boyd Bldg.
Anderson, F. O.....	73 Starr-Boyd Bldg.
Beck, R. A.....	73 Starr-Boyd Bldg.
Bendixon, K. P.....	Tug "Holyoke"
Burnes, James.....	73 Starr-Boyd Bldg.
Brown, William.....	768 Lakeview Ave.
Blackwood, Frank.....	San Francisco
Brit, Louis.....	73 Starr-Boyd Bldg.
Bitaux, Y. L. M.....	73 Starr-Boyd Bldg.
Brown, E. E.....	Fort Wrangle, Alaska
Blake, R. E.....	Steamer "Sehome"
Bender, Henry.....	73 Starr-Boyd Bldg.
Burke, Irwin.....	Anacortes
Bishop, Charles F.....	Steamer "Georgia"
Bennett, W. H.....	310 Nob Hill Ave.
Blake, G. M.....	73 Starr-Boyd Bldg.
Biggs, A.....	Steamship "Lydia Thomson"
Branaugh, Henry A.....	
Butterfield, G. E.....	Fairhaven
Bruce, R. E.....	Steamship "Dolphin"
Brooks, Herbert.....	Kirkland
Burrell, Theo.....	Redmond
Battz, T. O.....	2613 3rd Ave.
Bratigan, M. O.....	1111 30th Ave. South
Brownfield, C.....	201 9th Ave. North.

Telephone, Main 477.

J. BAMFORD, Prop.

TACOMA **Brass Machine Works**

MACHINISTS

Marine Engineers and Shipsmiths

IRON AND BRASS CASTINGS

15 & A STREET,

TACOMA, WASH.

Besides

ASHTON Pop Valves



No. 16
Ashton Cam Lever
Marine Pop Valve

WE MAKE
Pressure and Vacuum
Gages
Recording Gages
Gage Testers
Chime Whistles
Blow Off Valves
Counters and Marine
Clocks

All of a Superior Quality



No. 52
Improved Double Spring Gage

THE ASHTON VALVE CO.

BOSTON, MASS.

The Engineers Supply Co., Agents, Seattle, Wash.

Beloir, George.....116½ Puyallup Ave., Tacoma, Wash.
 Boyden, William.....164 John Street
 Birdsell, L. J.....73 Starr-Boyd Bldg.
 Burrell, Peter.....73 Starr-Boyd Bldg.
 Breyman, Charles.....Ballard
 Butcher, Fred....Steamer "Port Orchard," Aberdeen, Wash.
 Bragdon, J. H.....73 Starr-Boyd Bldg.
 Barnes, Paul.....Vulcan Iron Works
 Bryant, A. H.....408 Queen Anne Ave.
 Brightman, A. L.....1724 24th Ave., Seattle; Red 4281
 Burns, Charles.....73 Starr-Boyd Bldg., Aberdeen
 Brewster, W. M.....73 Starr-Boyd Bldg.
 Brown, Harry.....73 Starr-Boyd Bldg.
 Bassett, Charles.4208 Wallingford Ave. and 42d St., Fremont
 Blain, Wallace.....St. Michaels, Alaska
 Barrows, Fred E.....73 Starr-Boyd Bldg.
 Brownfield, James.....73 Starr-Boyd Bldg.
 Bird, Frank.....1401 Howel St.
 Bird, Frank.....1401 Howell St.

Collier, William.....Corner E. Pike and 36th St.
 Crowe, J. W.....Vulcan Iron Works
 Cox, William.....P. S. T. Co., Pioneer Bldg.
 Colman, G. F.....73 Starr-Boyd Bldg.
 Callahan, D. H.....1514 3rd Ave.
 Church, Nathan.....Steamer "Garland"
 Cosper, Fred B.....73 Starr-Boyd Bldg., Tug "Katy"
 Chicoine, GeorgeHoquiam, Wash.
 Clough, E. G.....Steamer "Reliance"
 Cone, David H.....73 Starr-Boyd Bldg., Juneau, Alaska
 Collier, Harry.....Corner E. Pike and 36th St.
 Clem, W. A.....1330½ Union St.
 Caffyn, F. J.....73 Starr-Boyd Bldg.
 Corre, Frank.....73 Starr-Boyd Bldg.
 Cadwallader, H. J.....73 Starr-Boyd Bldg.
 Crowley, M. D...73 Starr-Boyd Bldg., Steamship "Tacoma"
 Clough, W. H.....1408 2nd Ave. West
 Coughlan, William.73 Starr-Boyd Bldg., Steamship "Meteor"
 Charland, Fred.....703 7th Ave. South
 Curtis, A. H.....Coupeville
 Clem, L. L.....Great Northern Saloon, R. R. Ave.
 Cree, Duncan.....73 Starr-Boyd Bldg.
 Creamer, J. C.....Car Barns, Georgetown
 Campbell, J. M.....
 Clark, WilliamWhatcom

FRANK MALLOYE

TELEPHONE MAIN 511

McDEARMON & CO.

ASBESTOS BOILER AND
STEAM PIPE COVERINGS
MAGNESIA COVERINGS, 85
PER CENT. CARBONATE
STEAM PACKINGS AND GASKETS

ASBESTOS GOODS OF ALL KINDS

Asbestos Materials, Hair Felt, Mineral Wool,
Sheet Packings, Asbestos Cement Coverings,
Keystone Hair Insulator for Buildings and
Cold Storage

1308-1310 Western Avenue,

and

SEATTLE, WASH,

SAN FRANCISCO, CAL.

PACIFIC COAST AGENTS FOR THE

H. W. JOHN'S MANUFACTURING CO.

REFERENCES :

Moran Bros., Seattle.
Bremerton Navy Yard.
Diamond Ice and Cold Storage Co.
S. W. Hawxhurst, Superintendent Engineer P. M. S. S. Co.
Geo. W. Dickey, General Manager Union Iron Works.
Robert Forsyth, Superintendent Union Iron Works.
Fulton Iron Works.
W. C. Waters, Superintendent Western Beet Sugar Works.
Risdon Iron Works.
U. S. Army Transport Service.

STEAMERS :

Tiburon, Sausalito, City of Sydney, San Blas, City of Pekin, Columbia, San Jose, State of California, The Panama, Willamette, Peru, U. S. Battleship Oregon, Gunboats Marietta and Wheeling, Battleship Wisconsin, Japanese Cruiser Chitose, U. S. Army Transport Hancock, San Pablo, U. S. Army Transport Sheridan, Queen, U. S. Battleship Ohio, U. S. Monitor Wyoming.

We employ a large force of skilled workmen and are prepared to contract for the application of our Boiler and Pipe Coverings in any part of the Pacific Coast States, Mexico, Central America, Hawaiian Islands, China and Japan. Estimates and samples furnished on application. Send for circulars.

Clark, John W.....	73 Starr-Boyd Bldg.
Couffman, Percy.....	Steamer "Crest," Tacoma, Wash.
Cavanaugh, R.....	73 Starr-Boyd Bldg.
Creedon, John.....	36 East St., San Francisco
Carlson, N. L.....	73 Starr-Boyd Bldg.
Codling, S. D.....	Steamship "Roanoke"
Clanton, Alonzo J.....	73 Starr-Boyd Bldg.
Couson, William B.....	73 Starr-Boyd Bldg.
Colen, A. E.....	73 Starr-Boyd Bldg.
Dodge, R. S.....	Kasson Bay, Alaska
Deickhoff, E.....	324 18th Ave.
Delauney, Scot.....	1516 3rd Ave.
Danforth, Manley.....	73 Starr-Boyd Bldg.
Denny, Henry.....	Green Lake P. O.
Delauney, David.....	73 Starr-Boyd Bldg.
Delauney, Edward.....	73 Starr-Boyd Bldg.
Dodge, W. P.....	2111 E. Spruce St.
Dyer, Frank....	Steamship "Tampico," 73 Starr-Boyd Bldg.
Duke, W. R.....	Steamship "Farrolon," 2025 21st Ave.
Dudley, A. J.....	523 1/2 Pine St.
Donaldson, James.....	City Dock
De Jausserand, M.....	2202 Norman St.
Duane, Hank.....	Port Angeles, Wash.
Doe, Otis.....	Steamer "Cottage City"
Demmett, C.....	Steamship "Spokane," P. C. S. S. Co.
Drury, John R.....	City Fire Boat
Dreennem, James.....	Steamship "Oregon"
Daniels, W. C.....	Aberdeen
Doyle, B. W.....	319 Nob Hill Ave.
Downing, Lemont.....	Snohomish
Daniels, O.....	Steamship "Olympia," Tacoma, Wash.
Dione, Barney.....	Wenatchee, Wash.
Dow, Fred O.....	111 Virginia St.
Douglas, J. W.....	Port Crescent, Wash.
Dannebier, G. A.....	73 Starr-Boyd Bldg.
Ellis, R. H.....	P. S. T. Co.
Everett, W. S.....	Tacoma, Wash.
Emmons, F. O.....	73 Starr-Boyd Bldg.
Epperly, A.....	1415 First Ave.
Emerson, A. J.....	73 Starr-Boyd Bldg.
Engelskysen, Steve.....	Steamship "Majestic"
Fletcher, H. W.....	Port Townsend, Wash.

GEO. E. DOW PUMPING ENGINE CO.

**179 FIRST STREET,
SAN FRANCISCO, CAL.**

MANUFACTURERS OF

DOW PUMPS

FOR ALL PURPOSES

Send for our Marine Pump Catalogue

THE ATLANTIC REFINING CO.'S

HIGH GRADE

LUBRICATING OILS

DYNAMO OILS

MACHINERY OILS

BOILER COMPOUND

CUP GREASE

CRANK PIN GREASE

BELT DRESSING

LUBRICATING
SPECIALTIES, etc.

CALL
ON ..

ENGINEER'S SUPPLY CO.

EXCLUSIVE AGENTS FOR SEATTLE

THE ATLANTIC REFINING CO., CLEVELAND, OHIO.

Flint, Harry.....213 2nd Ave. North
 Frasier, Daniel.....Fern Hill Station, Green Lake
 Follett, Charles L.....Steamship "Tampico," Columbia City
 Farley, N.....319 North Hill Ave.
 Farmer, Howard.....616 21st Ave.
 Foley, Thomas.....73 Starr-Boyd Bldg.
 Frasier, A. M.....Port Townsend
 Farr, Frank A.....73 Starr-Boyd Bldg.
 Franks, E. L.....Steamship "Senator," P. C. S. S. Co.
 Furlong, Patrick.....Port Townsend
 Flint, Benjamin.....Steamer "Lydia Thomson"
 Flint, William.....Steamer "Prosper"
 Fairfield, Daniel.....73 Starr-Boyd Bldg.
 Fuller, Hiram.....Fairhaven

Griffith, J. V.....P. S. Tug Boat Co., Pioneer Bldg.
 Gard, Patrick.....1518 24th Ave.
 Giblett, A. B.....1201½ Pacific Ave., Tacoma
 Gillson, George N.....412 Olympic Place, Seattle
 Guptill, Fred.....3416 Yesler Way
 Goss, J. J.....73 Starr-Boyd Bldg.
 Gatter, F. D.....73 Starr-Boyd Bldg.
 Granger, Daniel.....
 Goss, John D.....73 Starr-Boyd Bldg.
 Gates, William W.....73 Starr-Boyd Bldg.
 Gates, William.....Steamer "State of Washington"
 Granger, J.....Fairhaven, Wash.
 Grubb, Walter.....Juneau, Alaska
 Gilmore, A. R.....Everett, Wash.
 Gearing, Albert.....73 Starr-Boyd Bldg.
 Gardner, Charles A.....73 Starr-Boyd Bldg.
 Gates, E. H.....433 First Ave. West
 Giffin, George A.....Port Townsend
 Gunn, William J.....73 Starr-Boyd Bldg.
 Greene, Carl M.....73 Starr-Boyd Bldg.

Hughes, James A.....73 Starr-Boyd Bldg.
 Hulen, J. W.....73 Starr-Boyd Bldg.
 Hill, L. M.....73 Starr-Boyd Bldg.
 Hale, W. S.....Steamer "Athlon," 1206 Republican St.
 Hill, A. B.....Steamer "Flyer"
 Holcomb, A. N.....Tug "Tyee," P. S. Tug Co.
 Harkins, Harry.....Steamer "Farralon"
 Hill, George W.....208 23rd Ave.
 Hanson, Peter.....Steamer "Tola," 1008 7th Ave. North

CORRECT GOODS
CORRECT STYLES
CORRECT PRICES

Correct Clothes for Men



HERALD'S



Merchant Tailoring is an Art of
which We are Masters

Herald Tailoring Co.

HERALD'S

811 First Avenue,

1329 Second Avenue

Colman Building,

Arcade Building,

— SEATTLE —

Hicks, CharlesPetersberg, Alaska
 Hill, Witt D.....208 23rd Ave.
 Herald, John H.....Steamer "Yellow Jacket"
 Heath, FredFairhaven, Wash.
 Henderson, George....Steamer "Flyer," 73 Starr-Boyd Bldg.
 Huff, Philip D.....
 Hughes, James B.....Juneau, Alaska
 Hudson, W. C.....Gig Harbor, Wash.
 Hyde, Thomas B.....Steamer "Georgia"
 Hertsberg, A. M.....73 Starr-Boyd Bldg.
 Heckman, Edward C.. Steamship "Al-Ki," 415 Madison St.
 Haywood, M. B.....Steamship "Olympia," Tacoma
 Hunt, Allen R.....Steamship "Meteor"
 Henry, Charles.....73 Starr-Boyd Bldg.
 Hakes, George.....73 Starr-Boyd Bldg.
 Hartman, John W.....

Johnson, Louis.....2718 Western Ave., 73 Starr-Boyd Bldg.
 Jackling, William B.....420 Seneca St.
 Jensen, O. C.....Steamer "Doctor," 941 23rd Ave.
 Jackson, J. M.....73 Starr-Boyd Bldg.
 Joy, Sanford.....Kent, Wash.
 Jonsen, Albert.....73 Starr-Boyd Bldg.
 Jackson, Allen W.....73 Starr-Boyd Bldg.

Keltie, David.....73 Starr-Boyd Bldg.
 Kenzovick, N.....73 Starr-Boyd Bldg.
 Karlson, August.....73 Starr-Boyd Bldg.
 Kennedy, John.....73 Starr-Boyd Bldg.
 Kummer, A.....73 Starr-Boyd Bldg.
 Kingsbury, George A.....Steamer "Bay City," Everett
 Knox, William..Steamer "New England," Vancouver, B. C.
 Knox, J. W.....Steamship "Victoria," Tacoma
 Keel, Jefferson.....4644 East Valley St.

Livingstone, J. J.....73 Starr-Boyd Bldg.
 Larson, L.....73 Starr-Boyd Bldg.
 Lubbe, Fred.....
 Larson, J. E.....73 Starr-Boyd Bldg.
 Lake, Charles.....73 Starr-Boyd Bldg.
 Lee, JamesFremont P. O.
 Lavin, John.....Fort Wrangle, Alaska
 Levake, David P.....
 Loren , C. O.....Tacoma
 Lorenz, C. O.....Tacoma

NEW YORK LIFE

closes its books for the year 1902 and shows over \$300,000,000 of new paid for business for the year ; almost 700,000 policy holders, and over \$300,000,000 of assets invested in the best securities of the world.

This phenomenal increase over all other companies is accounted for by reasons as follows :

1st.—The policies are **INCONTESTIBLE** and **NON-FORFEIT-ABLE** from date of **ISSUE**, giving an equity to the insured from the beginning of the contract.

2nd.—Its cash loans are available on **DEMAND**, and are **LARGER** than those of any other company.

3rd.—Reinstatement can be had at any time after the non-payment of any premiums on evidence of good health.

4th.—Its policies are absolutely free of conditions as to residence, occupation, travel, habits of life, manner, time or place of death.

5th.—All of these provisions are recited at length in the policy, furnishing an abstract of clear title from the beginning.

6th.—It has the greatest volume of business in force in the world and the largest income of any company in the world, and its settlements of maturing policies are in excess of any company in the world. (See sample of settlements below.)

TACOMA, WASH., Nov. 21, 1902.

I beg to acknowledge statement covering options on my 10 payment 20 year Tontine Dividend Policy No. 170849, issued by your company twenty years ago, at age of 43.

I am exceedingly gratified at the result which your statement shows—that I have received about \$1.72 for every dollar invested with your company, or about 72 per cent. on the money paid you, besides having \$5000 insurance for twenty years free of cost. In other words I paid into the company \$319.20 for ten years —\$3192—and can now take out in cash \$5468.35, or a cash profit of \$2276 35.

This settlement comes to me at my time of life as a God-send, and I congratulate myself upon the good judgment I exercised through the ten years of the most productive period of my life, for I fully realize that the value of a dollar now is equal to ten dollars at the time I made application for this policy. I have made a provision for old age when I am almost past the productive period, and the fact of being independent and not a charge upon my children or relatives is a pleasing one to contemplate.

I take pleasure in advising every insurable man not to postpone for a day making application for insurance, and cheerfully recommend the New York Life Insurance Company to all who contemplate taking out insurance.

I further desire to say that my settlement is in excess of my expectations.

With kind regards to your company, and wishing you continued success, I remain,

Yours very truly,

(Signed) LOUIS BURGESS,

3424 North 28th St., Tacoma, Wash.

NOTE.---Seafaring Men Written on Any Plan Without Extra Charge

Landerkin, G. M.....	Byron Sta. Renton cars, Seattle
Little, Hiram.....	Interbay, Wash.
Leake, Irwin W.....	Steamer "Dolphin," P. S. Tug Co.
Louis, C. H.....	Steamer "J. R. Coleman"
Linley, C. V.....	Anacortes, Wash.
Lancaster, J. F.....	Anacortes, Wash.
Lollis, M.....	73 Starr-Boyd Bldg.
Mann, Victor.....	73 Starr-Boyd Bldg.
Morrison, J. P. R.....	1158 Valley Street
Miller, A. J.....	415 Madison St.
Masterson, Peter.....	73 Starr-Boyd Bldg.
Morek, William.....	Steamship "Victoria," Tacoma
Mitchell, James A.....	73 Starr-Boyd Bldg.
Morrell, George E.....	Green Lake
Mickle, Leo.....	Steamer "Sehome"
Medinskie, F. V.....	73 Starr-Boyd Bldg.
Mason, F. O.....	Tug "Escort II," 73 Starr-Boyd Bldg.
Murphy, G. G.....	73 Starr-Boyd Bldg.
Morgan, George.....	Manila
Marcell, L. J.....	73 Starr-Boyd Bldg.
Meston, James R.....	Steamship "Victoria," Tacoma
Moe, O. S.....	Juneau, Alaska
Melville, William.....	Aberdeen, Wash.
Murphy, James J.....	Fort Wrangle, Alaska
Miller, David W.....	Fairhaven, Wash.
Meade, J. C.....	73 Starr-Boyd Bldg.
Martin, J. C.....	Steamship "Cottage City"
McConnell, Alex.....	P. S. Tug Co.
McCabe, Frank J.....	73 Starr-Boyd Bldg.
McInnis, Daniel.....	Steamship "Mainlander"
McFadden, J. O.....	73 Starr-Boyd Bldg.
McDowell, G. A.....	Gig Harbor
McDonald, G. A.....	73 Starr-Boyd Bldg.
McMillan, David.....	73 Starr-Boyd Bldg.
McPhee, Michael.....	44 Vine St.
McManeny, Clinton.....	73 Starr-Boyd Bldg.
McGee.....	73 Starr-Boyd Bldg.
McKenney, William.....	73 Starr-Boyd Bldg.
McCormick, Thomas.....	Steamship "Oregon"
Millsbaugh, Walter.....	Lake Washington
Madin, Nathan.....	Leclaire, Iowa
Miller, Ben.....	Steamship "Mary D. Humes, 73 Starr-Boyd Bldg.
Nation, John.....	73 Starr-Boyd Bldg.

GEO. N. GILSON,
President

CHARLES SNYDER,
Secretary

J. F. LANE,
Treasurer

ENGINEERS' SUPPLY CO.

INCORPORATED

Railroad Ave., bet. Yesler Way and Washington St.

Telephone Main 1191

SEATTLE, WASH.


DEALERS IN

General Engineers' Supplies

LUBRICATING OILS, GREASE, PACKING
MANHOLE GASKETS
STEAM AND WATER HOSE
PIPE AND FITTINGS
AND ALL KINDS OF BRASS GOODS

Agents for Chapman, Ashton & Bashlin Valves

Reference: Scandinavian-American Bank

Ship's Plumbing  Electrical Work

Nickolson, Kenneth.....	Steamer "George E. Starr"
Nash, William.....	337 19th Ave.
Nickolson, J. A.....	73 Starr-Boyd Bldg.
Nelson, Horatio.....	Tug "Sea Lion"
Newburg, Andrew.....	73 Starr-Boyd Bldg.
Newmarker, John.....	U. S. A. Transport "Dix"
Nickolson, M. W. .Str. "Edith,"	73 Starr-Boyd Bldg., Tacoma
Noon, A. J.....	73 Starr-Boyd Bldg.
Nash, R. S.....	337 19th Ave.
O'Neill, James.....	Mission St. Dock, San Francisco
O'Brien, William.....	Interbay
O'Neill, John.....	Valdez, Alaska
Parks, George F.....	202 Dexter Ave.
Peel, John.....	204 6th Ave. North
Parker, B. F.....	1120 8th Ave.
Perring, Nick C.....	Port Blakeley, Wash.
Packwood, William.....	Green Lake P. C.
Pierce, Thomas.....	73 Starr-Boyd Bldg.
Penfield, Russell.....	10 Jackson St., San Francisco
Peterson, Fred.....	1516 Madison St.
Pierson, J. W.....	1920 East Thomas St.
Parks, L. G.....	218 29th Ave.
Peters, H. B.....	Ballard, Wash.
Patterson, Hugh.....	Care Dodwell & Co., Tacoma
Perrett, Henry.....	
Peel, William.....	204 6th Ave. North
Paddison, O. H.....	73 Starr-Boyd Bldg.
Peters, Charles.....	223 Wall Street
Peregoy, Daniel.....	73 Starr-Boyd Bldg.
Parker, W. A.....	2819 Washington Ave., Tacoma
Plummer, T. D.....	73 Starr-Boyd Bldg.
Puariea, M. A.....	Whatcom, Wash.
Peterson, Peter P.....	73 Starr-Boyd Bldg.
Peel, Louis.....	East Jefferson and 23rd Ave.
Papst, C. A.....	Care P. S. & I. Co., Tacoma
Primrose, George E.....	73 Starr-Boyd Bldg.
Palmer, E. V.....	73 Starr-Boyd Bldg.
Paulson, John W.....	U. S. A. Transport "Dix"
Parker, George F.....	Fifth Ave. and Pike St.
Palmer, Bert.....	Leschi Park, Seattle
Pierce, Harry.....	Steamship "Hyadias"
Parker, B. P.....	73 Starr-Boyd Bldg.
Peoples, George B.....	South Bend, Wash.
Pucker, Andrew A.....	73 Starr-Boyd Bldg.

AMERICAN LINDE REFRIGERATION CO.

45 Broadway, New York

MANUFACTURERS OF

Ice Refrigerating Machinery

ON THE TWO SYSTEMS

ANHYDROUS AMMONIA

AND

CARBONIC ACID

Refrigeration of Stores and Ships' Holds a Specialty

BY

American Linde Patent System

OF

Purified Cold Air Circulation

OVER 5,000 PLANTS INSTALLED
OVER 500 PLANTS ON SHIPS

Reed, William.....	Steamer "Rapid Transit"
Ross, Robert.....	P. S. Transportation Co.
Reed, Roger.....	Steamer "Skagit Queen"
Rowell, Edgar.....	Steamer "Prosper"
Ross, John D.....	73 Starr-Boyd Bldg.
Ruffer, E. C.....	73 Starr-Boyd Bldg.
Reasoner, Frank M.....	905 Worth St., Whatcom
Rose, P. S.....	Eagle Harbor, Wash.
Raymond, Earl.....	2112 Fourth Ave.
Rouse, Wallace.....	1606 Sixth Ave.
Robinson, Charles H.....	Steamship "Olympia," Tacoma
Ransome, J. S.....	Kilbourne Ave, Fremont
Roach, William C.....	Fremont, Wash.
Rogers, F. N.....	73 Starr-Boyd Bldg.
Russell, A. H.....	Steamship "Manuense"
Rowland, Charles H.....	Steamship "Al-Ki"
Rylett, Harry.....	Steamship "Flyer"
Swanberg, Frank.....	73 Starr-Boyd Bldg.
Smith, John.....	73 Starr-Boyd Bldg.
Smith, Charles W.....	105 Mercer St.
Smith, Henry.....	723 Marion St.
Still, Edwin.....	918 Thomas St.
Sanders, Sewell.....	Ballard, Wash.
Siggins, James.....	Ballard, care Stimson Mill Co.
Speiseke, Oswin.....	1821 Broadway
Short, Thomas.....	Steamship "City of Everett"
Sane, William T.....	U. S. Steamer "General Wilson"
Slater, G. W.....	73 Starr-Boyd Bldg.
Strömberg, John.....	P. S. Trans. Co.
Snyder, George A.....	1917 15th Ave. South
Snyder, W. A.....	1804 Yesler Way.
Snyder, Chas. W.....	1714 Yesler Way, Phone Black 5582
Stanley, James.....	Gig Harbor
Scott, John W.....	107 20th Ave. North
Sindars, Otto.....	2408 Western Ave.
Stewart, C. W.....	
Sewell, J. R.....	73 Starr-Boyd Bldg.
Searles, P. B.....	Steamship, "Elihu Thomson"
Smith, J. J.....	73 Starr-Boyd Bldg.
Schreck, W. C.....	Steamship "Dolphin"
Speiger, Harry.....	73 Starr-Boyd Bldg.
Stone, E. R.....	Steamship "Flyer"
Snyder, S. S.....	73 Starr-Boyd Bldg.
Snyder, E. A.....	Port Angeles

PATENTS DESIGNS TRADE-MARKS COPYRIGHTS CAVEATS
SUPERIOR SERVICE IN ALL BRANCHES OF THE WORK

PATENTS

MECHANICAL DRAWING

==PIERRE BARNES & CO.==

(REGISTERED PATENT ATTORNEYS)

WRITE FOR OUR BOOK ON PATENTS

75 STARR-BOYD BLOCK

SEATTLE. WASH.

TELEPHONE RED 996

RETAIL BUNKERS

Foot Madison Street

TEL. MAIN 976

INDEPENDENT 976

Issaquah Coal Co.

MINERS OF THE CELEBRATED

GRAND RIDGE COAL

Which they sell at Wholesale and Retail. This Coal is of the
Finest Quality, free from dirt, being specially prepared for
STEAM and DOMESTIC USE

ORDERS BY MAIL, TELEPHONE OR EXPRESSMAN WILL RECEIVE PROMPT ATTENTION

OFFICE: COR. WESTERN AVE. AND MADISON ST.

Seattle, Washington

Shields, Andrew.....	Steamship "Tacoma," Tacoma
Sheld, John A.....	Care Steamship "George E. Starr"
Startup, Joseph.....	U. S. Light Ship "Columbine"
Stearns, Edwin.....	73 Starr-Boyd Bldg.
Strum, Ole.....	Steamer "Josephine"
Sonberg, A. G.....	Steamer "Queen City"
Snyder, C. G.....	Steamer "Fairhaven"
Sinders, Herman.....	Steamer "Mary D. Humes"
Stewart, Eugene.....	Steamer "Albion"
Stewart, Edwin.....	Steamer "Pleideas"
Sprague, F. A.....	
Snyder, Frank.....	1804 Yesler Way
Still, Albert.....	
Schwibold, George.....	Steamer "Escort II"
Steen, Louis C.....	73 Starr-Boyd Bldg.
Strang, H.....	73 Starr-Boyd Bldg.
Swartz, J.....	73 Starr-Boyd Bldg.
Smith, William.....	73 Starr-Boyd Bldg.
Stebbins, Bert.....	73 Starr-Boyd Bldg.
Tucker, George W.....	524 4th Ave. West
Thompson, William E.....	73 Starr-Boyd Bldg.
Trumble, Howard H.....	1901 6th Ave.
Tinsley, Charles A.....	402 Cedar St.
Trout, John.....	Port Blakeley, Wash.
Tucker, H. R.....	160 Republican St.
Tovey, Frank H.....	Care Dodwell & Co., Tacoma
Thornton, Albert.....	73 Starr-Boyd Bldg.
Tanner, John E.....	3118½ Wall St.
Thomas, E.....	1217 Denny Way
Throsby, Edwin R.....	73 Starr-Boyd Bldg.
Taylor, William.....	905 18th Ave.
Triplett, E. G.....	"Fairhaven"
Tracy, Frank G.....	73 Starr-Boyd Bldg.
Urbanek, John P.....	Steamship "Roanake"
Verrill, S. H.....	Steamship "City of Pueblo"
Vail, James H.....	73 Starr-Boyd Bldg.
Van Tassel, William.....	73 Starr-Boyd Bldg.
Whalen, John.....	Steamer "Edith," Tacoma
Whitehead, F. P.....	Steamship "City of Seattle"
Wade, Herbert G.....	73 Starr-Boyd Bldg.
Wold, Louis.....	73 Starr-Boyd Bldg.

SCHWABACHER HARDWARE COMPANY

Wholesale Dealers in

HARDWARE, IRON and STEEL

SHIP CHANDLERY, Etc.

MACHINISTS' SUPPLIES

ENGINEERS' SUPPLIES

PIPE FITTINGS AND BRASS GOODS

PACKING, HOSE, ETC.

Telephone Exchange 4

P. O. Box 229

CORRESPONDENCE SOLICITED

SEATTLE, - - WASHINGTON

FRED E. SOHL & OLSON CO.

BLOCK MAKERS, WOOD TURNERS
STEERING-WHEEL WRIGHTS



All Kinds of Bushing

Patent Roller Bushing
Metalline Bushing
Common Bushing

All Kinds of Repairing of
Blocks
Steering-Gears
Chocks

Lignumvitæ by piece or by ton
Flag Poles, Etc., Made.

ALL WORK GUARANTEED

Heavy Purchase and Main Sheet Blocks a Specialty

1302 RAILROAD AVENUE,

SEATTLE, WASHINGTON

Wright, William A.....	73 Starr-Boyd Bldg.
Webb, Thomas S.....	U. S. A. Transport "Warren"
Woods, Charles.....	
Woods, Robert.....	12 Denny Way
Williamson, James F.....	
Woods, H. W.....	Woodlawn Ave. and 72nd St., Green Lake
Wheeler, John.....	Fremont, Wash.
Wetherwax, R. W.....	73 Starr-Boyd Bldg.
Woods, Hazen B.....	P. S. Tug Co., Port Townsend, Wash.
Wolford, C. H.....	309 South East St., Tacoma, Wash.
Wheeler, M.....	716 Spring St.
Wheater, F. O.....	73 Starr-Boyd Bldg.
Wysong, Oty.....	Green Lake
Woods, John G.....	Steamship "Dolphin," Green Lake
Woolery, William.....	1514 6th Ave. West
Weiss, W. E.....	Olympia, 73 Starr-Boyd Bldg.
Wilson, E. W.....	P. C. S. S. Co., 73 Starr-Boyd Bldg.
Wallace, Walter.....	City Fire Boat
Walford, W. G.....	Everett
Warren, John B.....	Fairhaven, Wash.
White, B. D.....	Port Townsend
Wright, John S.....	73 Starr-Boyd Bldg.
Yerion, S. B.....	73 Starr-Boyd Bldg.
Zickmund, Frank.....	1823 12th Ave.

ASSOCIATE MEMBERS.

Robert Moran.....	Moran Ship Building
Samuel Sutton.....	P. C. S. S. Co.
Robert Turner.....	U. S. Local Inspector
Isaac Parker.....	1128 8th Ave.
John Hutton.....	Machine Works, Flyer Dock
H. A. Boedecker.....	Tacoma
H. E. Borie.....	Main and Second Ave. South
James F. Primrose.....	Puget Sound Tug Boat Co.

MORAN BROS. COMPANY

SEATTLE, WASHINGTON

Ship and Engine Builders

Steel and Wood Vessels, Steam or Sail, for Ocean,
Sound and River Service. : : : : :
Foundry, Machine, Boiler and Forge Shops. Large-
est Tools and Equal to any Requirement. Heavy
Forgings a Specialty. : : : : : : : :

Dry Dock and Marine Railway

Ship Chandlery, Engineers' Supplies.

Saw and Planing Mill

Capacity: Timber 48 inches square, 125 feet long,
including every description of Rough, Dressed or
Kiln Dried Yellow Fir, Red Cedar or Spruce.

We make a Specialty of Long and Large Timber
and can dress four sides 20 x 30 inches. : : :

SPARS—The longest, largest, clearest and best in
the world; rough or hewn. : : : : :

PILES or timber of any description. : : : :

Cars from all transcontinental roads enter our
yards and docks. : : : : : : : ;

DOCK SHIPMENTS TO ALL PARTS OF THE WORLD

ELECTRIC CRANE—Capacity to transfer 75 tons from car to vessel

WE INVITE CORRESPONDENCE

M. E. B. A. No. 35, San Francisco.

SAN FRANCISCO OFFICERS FOR 1902.

Past President	- - - - -	JOHN R. FLOUD
President	- - - - -	JOHN J. MORIARTY
First Vice-President	- - - - -	H. J. WOLTERS
Second Vice-President	- - - - -	THOS. BENJAMIN
Treasurer	- - - - -	ALEX. HYDE
Recording and Corresponding Secretary	-	HENRY B. LISTER
Financial Secretary and Business Manager	-	J. J. SEAREY

TRUSTEES.

J. E. A. MILLER	EDWARD BRADY	J. C. BUCHANAN
RICHARD G. ROBINSON	J. E. WYNNE	

DELEGATES TO NATIONAL CONVENTION.

FRANK A. JONES	JOHN R. FORBES
Alternate, J. R. FLOUD	

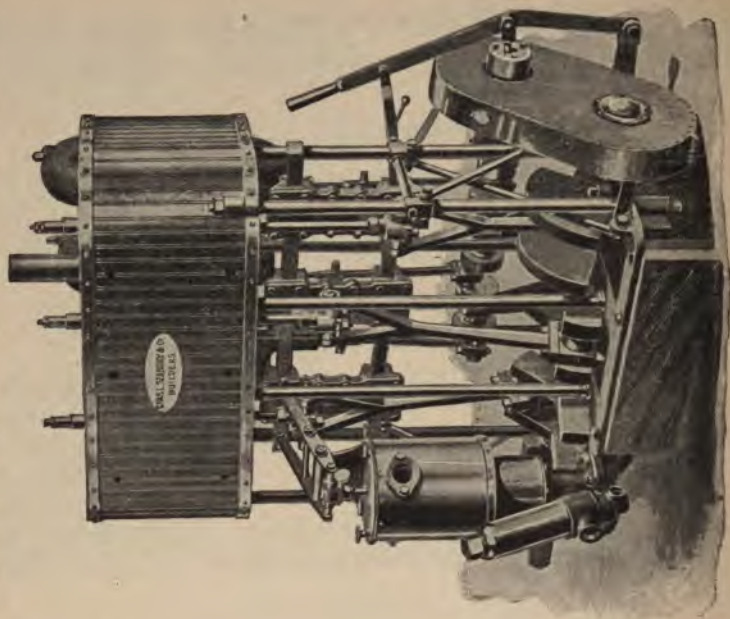
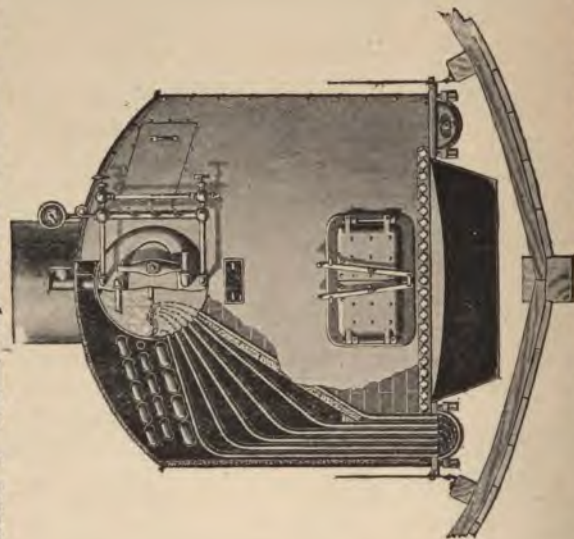
DIRECTORY OF MEMBERS.

Abrahamson, F.	610 Taylor Ave., Alameda
Adams, Herbert	655 Schuyler St., Portland, Or.
Adelseck, Frank	724 Green St., S. F.
Ainsworth, J. V.	Florida St., Los Angeles
Ainsworth, H. S.	602 McAllister St., S. F.
Aldrich, W. H.	Frankfort, Michigan
Algren, W. W.	560 Howard St., S. F.
Alison, R. B.	633 Carolina St., Vallejo
Alison, Wm.	3431 Sacramento St., S. F.
Allen, James R.	14 Mason St., S. F.
Alling, W. C.	Seattle, Wash.
Anderson, A. F.	705 Brush St., Oakland
Anderson, A. W.	1605 Twenty-third Ave., East Oakland
Anderson, C. F.	425b Thirteenth St., S. F.
Anderson, Geo.	1539 Buena Vista Ave., Alameda
Anderson, H. J.	717 Brush St., Oakland
Anderson, John O.	401 Harrison St., S. F.

"SEABURY" HIGH-SPEED ENGINES AND SAFETY WATER TUBE BOILERS

Designed for yachts and for general marine work, giving high efficiency, light weight and economy of space.

Builders of Steam, Naphtha and Gasoline Yachts.



SEND 10c. IN STAMPS FOR ILLUSTRATED CATALOGUE
Gas Engine & Power Co. and Charles L. Seabury & Co., Consolidated,
MORRIS HEIGHTS, NEW YORK CITY.

Anderson, John R.....1725 Tenth St., Oakland
 Anderson, J. J.....334 Fremont St., S. F.
 Anderson, J. W.....1428 Shotwell St., S. F.
 Anderson, Martin.....1102 Third Ave., Seattle
 Anderson, Ole.....1056 Third St., Oakland
 Anderson, Peter.....Vallejo St. Wharf, S. F.
 Anderson, Tom.....26 Rincon Point, S. F.
 Anderson, W. E.....1213 Santa Clara Ave., Alameda
 Andrade, J. S.....Steamer "Modoc"
 Andrews, J.....4317 Twenty-third St., S. F.
 Archer, James.....871 Shotwell St., S. F.
 Ard, E. J.....36 East St., S. F.
 Arnes, Geo. A.....U. S. A. T. "Sheridan"
 Armstrong, H. R.....S. W. cor. Hayes & Polk, S. F.
 Armstrong, John.....634 Forty-seventh St., Oakland
 Arnold, H. V.....36 East St., S. F.
 Austin, J. L.....Steamship "Mariposa"

Bain, W. A.....1401 Guerrero St., S. F.
 Bail, E. W.....403 Harrison St., S. F.
 Bailey, C. M.....36 East St., S. F.
 Baker, B. W.....36 East St., S. F.
 Barbere, J. T.....1368 Broadway, Oakland
 Barker, Jos.....137a Thirteenth St., S. F.
 Barker, W. H.....U. S. A. T. "Egbert"
 Barnes, Monroe.....3213 Twenty-fourth St., S. F.
 Barrack, D. A.....443 O'Farrell St., S. F.
 Barrettt, A. J.....280 Seventh St., S. F.
 Bartness, L. C.....278 East Tenth St., Oakland
 Bauman, H.....627 California St., Eureka
 Baxter, Peter.....428 Eddy St., S. F.
 Beane, W. J.....2073 Mission St., S. F.
 Bearrie, Jos.....Clay St. Wharf, S. F.
 Beckett, H. R.....813 Golden Gate Ave., S. F.
 Beede, Stephen.....1025 Post St., S. F.
 Beggs, Samuel.....911 Illinois St., S. F.
 Benjamin, Thomas C.....36 East St., S. F.
 Bennett, J. G.....2119 Howard St., S. F.
 Benson, J. M.....122 Eighth St., S. F.
 Bermingham, John.....Pinole, Contra Costa Co.
 Bermingham, Samuel.....Pinole, Contra Costa Co.
 Berg, Albert.....1821 Mason St., S. F.
 Berg, Gus.....131 South Park, S. F.
 Bernhardt, Herm.....1010 Washington St., S. F.
 Bessing, Jos.....1059 Pacific St., S. F.



ENGINEERING AND SHIPBUILDING PLANT
OF
RISDON IRON WORKS
SAN FRANCISCO, CAL.

(INCORPORATED IN 1868)

MARINE WORK OF ALL DESCRIPTIONS
REPAIRS A SPECIALTY
BOILERS AND ENGINES
STEERING ENGINES ANCHOR HOISTS
CARGO WINCHES DECK PUMPS
EVAPORATORS
HEATERS

Oil Burning Appliances Fitted Complete

ELECTRICAL WORK OF ALL KINDS

WRITE FOR CATALOGUES

Beveridge, Wm.	340 Alvarado St., S. F.
Beverly, E. H.	3 Walker St., S. F.
Binder, W.	Coronado
Bird, Edward	1105 Page St., S. F.
Bird, J. C.	36 East St., S. F.
Bird, J. F.	39 Lower Terrace, S. F.
Bird, M.	202 Virginia Ave., S. F.
Birkenshaw, Geo.	446 Eighth St., Astoria
Bitley, F. W.	843 Capp St., S. F.
Black, Edwin C.	712b Fell St., S. F.
Blackburn, Thos.	Steamship "J. S. Kimball"
Blanchard, F. R.	530 Golden Gate Ave., Room 2, S. F.
Blinn, W. P.	514 Terrace Ave., Seattle
Blum, Chas.	1006 Channing Way, West Berkeley
Bodmer, H. E.	1421 Sixteenth St., Oakland
Bogardus, W. H.	36 East St., S. F.
Bonner, Geo.	Honolulu
Bonner, John	Honolulu
Bowen, Wm.	226 Sanchez St., S. F.
Box, J. R.	517 McAllister St., S. F.
Boyce, L. F.	1301 Taylor St., S. F.
Boyd, J. T.	53 Minna St., S. F.
Braden, H. W.	623 Howard St., S. F.
Brady, Edw.	113 Mission St., S. F.
Brady, R. J.	1129 Folsom St., S. F.
Brady, W.	39 Hartford St., S. F.
Bragg, F.	110 Steiner St., S. F.
Brewer, F. A.	I. I. S. N. Co., Honolulu
Bridges, J. A.	218 Collingwood St., S. F.
Bright, Glenn	Honolulu
Brolley, A. B.	Steamship "Coptic"
Broman, A.	1141 Alstonway, Berkeley
Bromley, Geo. S.	522 Van Ness Ave., S. F.
Bromley, W. H.	Honolulu
Brownridge, G. T.	Vallejo
Brown, Chas.	219 Second Ave., S. F.
Brown, F. C.	1530 California St., S. F.
Brown, Geo. E.	501 Montgomery Ave., S. F.
Brown, Justus	409 North Stockton St., Stockton
Brown, R.	229 Fulton St., S. F.
Brown, R. D.	412 Sixth St., S. F.
Brumbrook, A. F.	1195 Sanchez St., S. F.
Buchanan, J. C.	2443 Howard St., S. F.
Buhr, Paul	1041 Taylor Ave., Alameda
Bulger, Thomas	513 Elizabeth St., S. F.

Pacific Coast Rubber Co.

453 Mission Street - San Francisco, Cal
41 First Street - - - Portland, Oregon
714 First Avenue - - - Seattle, Wash.
1316 A Street - - - Tacoma, Wash.
Zeigler Block - - - - Spokane, Wash.

WASHINGTON RUBBER CO.

—SELLING AGENTS FOR STATE WASHINGTON—

HEADQUARTERS FOR

Boston Belting Co.'s Packings, Hose
and Belting.

"Hoyts" Leather Belting.

Daniels P. P. P. Packing.

Trainers Marine Packing.

Flexible Metallic Steam Hose.

Chicago-Electric Pneumatic Hose.

Wing's High Speed Graphite Babbitt.

Morse Diving Outfits.

Underwriter's Fire Extinguishers

Ruberoid Roofing



IF IT'S MADE OF RUBBER ASK US!

Bullene, E. E.	1318 Florida St., S. F.
Bunker, W. L.	754 Oak St., S. F.
Bunkers, H.	1923 Mason St., S. F.
Bunting, W. L.	618 Haight St., S. F.
Burleman, H.	1835 1/2 Eddy St., S. F.
Burns, J.	Steamer "Newtown," Rio Vista, Cal.
Burnett, J.	542 Webster St., Oakland
Burpee, M. C.	Steamship "Columbia"
Burrill, W. P.	Eureka, Humboldt Co., Cal.
Burris, B. O.	157 Tenth St., S. F.
Callahan.	1637 Filbert St., Oakland
Callahan, W.	1111 Eighth St., Oakland
Cameron, A.	517 1/2 Second St., S. F.
Cameron, J. L.	1311 Howard St., S. F.
Campbell, F. M.	770 Bryant St., S. F.
Campbell, H. F.	36 East St., S. F.
Campbell, John.	770 Bryant St., S. F.
Campbell, Michael.	231 Second St., S. F.
Campbell, R. J.	3364 Nineteenth St., S. F.
Carlson, John.	1041 Montgomery Ave., S. F.
Carr, J. T.	Boston City Hospital, Boston, Mass.
Carrick, D.	1505 Sanchez St., S. F.
Carrick, J. C.	406 Brannan St., S. F.
Carrick, T. F.	1505 Sanchez St., S. F.
Carrol, T. H.	217 Fillmore St., S. F.
Carew, W.	2402 Folsom St., S. F.
Carine, J.	838 Harrison St., S. F.
Carson, Chas.	408 Bryant St., S. F.
Carson, Geo. H.	1013 Sixty-third St., Oakland
Cave, H.	370 Fell St., S. F.
Cayo, Felix.	General Dock, Seattle
Chapman, W. S.	544 Sutter St., S. F.
Chevalier, R. F.	930 Railroad Ave., Alameda
Chisholm, W.	840 Larkin St., S. F.
Christenson, C. R. E.	1078 Tennessee St., S. F.
Christenson, H. A.	121 Herman St., S. F.
Christenson, M.	118 Drumm St., S. F.
Christenson, W.	606 Merrimac St., Oakland
Church, S. N.	Steamship "Sanoma"
Clark, G. R.	Steamship "Australia"
Claussen, G. F.	Golden West Hotel, S. F.
Claussen, Wm.	Golden West Hotel, S. F.
Clearey, T.	1302 Laguna St., S. F.
Clements, J. F.	1210 Devisadero St., S. F.

THE J. & B. HUNT CO.

Warm Air Furnaces, the "Boynton," the "Standard."

Steam and Hot Water Heating

PLUMBING

HEAVY COPPERSMITHING

MANUFACTURERS OF ALL KINDS OF

Tin, Sheet Iron and Copper Work

LEAD WORKERS. SHIP VENTILATORS.

ESTIMATES FURNISHED

716 PACIFIC AVE., Tel. Black 774 TACOMA, WASH.

S. D. BREAR, Sr.

Phone, James 2551

A. E. BREAR

S. D. BREAR & SON

PROPRIETORS

Tacoma Steam Boiler Works

ALL KINDS OF STATIONARY, LOCOMOTIVE AND MARINE BOILERS

SHEET IRON WORK, SMOKE STACKS, BRITCHENS, ETC.

Oil Tanks, Sluicing Pipes, Draft Tubes,

LARD TANKS, LARD COOLERS,

Repair Work Promptly Done. Correspondence Solicited.

Estimates Furnished on Application.

Office and Works, 1817-19 Dock St.

TACOMA, WASH.

Cloak, H. B.	527 Page St., S. F.
Cochran, J. J.	3933 Twenty-third St., S. F.
Coffee, W. M.	Honolulu
Coleman, Albert.	Windsor Hotel, S. F.
Collins, H. J.	36 East St., S. F.
Colbron, J.	945 Hayes St., S. F.
Comstock, C. E.	2312 Bryant St., S. F.
Comstock, R. E.	2312 Bryant St., S. F.
Concannon, P. J.	2008a Howard St., S. F.
Concannon, T.	38a Silver St., S. F.
Conaty, P. J.	U. S. Transport "Logan"
Condon, M.	206 Fair Oaks St., S. F.
Connell, John.	23 Folsom Ave., S. F.
Connolly, B.	11a Henry St., S. F.
Conroy, Hugh.	1218 Folsom St., S. F.
Cook, A. R.	230 Powell St., S. F.
Cook, W. T.	California Nav. & Imp. Co., S. F.
Cookson, Frank.	339 San Carlos Ave., S. F.
Cookson, F. S.	1315 McPherson St., Alameda
Coombs, W. M.	1061½ Haight St., S. F.
Cooper, A. W.	2149 Market St., S. F.
Cooper, H. H.	51 Prosper St., S. F.
Cornell, John.	31 Clarence Place, S. F.
Gosgrove, G. T.	360 East Twenty-second St., Oakland
Costello, R.	4405 Twenty-fourth St., S. F.
Cottle, Z.	36 East St., S. F.
Courtney, Daniel.	2055 San Antonio Ave., Alameda
Cousins, R. J.	38 Dane St., S. F.
Cousins, Wm.	720 Hampshire St., S. F.
Cowan, H.	129 Third Ave., N. Y.
Cowperthwaite, J. J.	123 Eddy St., S. F.
Cox, Leander.	310 Sansome St., S. F.
Cradick, M.	59 Silver St., S. F.
Cramp, Edward.	403 Harrison St., S. F.
Crawford, Frank.	371 Tenth St., Oakland
Crawford, T.	1521 Ninth St., West Oakland
Crigler, W. L.	519½ Oak St., S. F.
Crisp, C. E.	San Anselmo, Marin Co.
Crogan, F. J.	3329 Twenty-second St., S. F.
Cronan, W.	13 Hathorne St., S. F.
Cunningham, H.	1158 Sanchez St., S. F.
Cunningham, M.	406 Brannan St., S. F.
Cunningham, Peter.	289 Jersey St., S. F.
Cushing, B. H.	2611 Howard St., S. F.
Cuthbertson, G. W.	755 South Third St., San Jose

THE CHASE MACHINE CO.

**Engineers, Machinists, Blacksmiths
and Iron Founders**

**Builders of HOISTING AND HAULING ENGINES, AUTOMATIC STEAM
TOWING MACHINES, GAS AND GASOLENE ENGINES, Etc.**

Office, 111 Elm Street,

CLEVELAND, OHIO.

Marine Engineers' Beneficial Association No. 38, Inc., Seattle, Wash.

GENTLEMEN:—We thank you for the opportunity afforded us by your Marine Blue Book of the Pacific Coast to call to your notice, and that of your friends, associates and patrons, the Automatic Steam Towing Machinery recently patented and placed upon the market by this company. By its use ocean towing is made practical and safe, faster time insured, labor reduced, and the almost prohibitive cost of manila hawsers done away with. Also we would like to get our Steam Capstans, Deck Engines, Steam Attachments to Windlasses, and other specialties, so well and favorably known on the Lakes and Atlantic Coast, more generally introduced in your territory, to our mutual advantage.

Yours respectfully,

THE CHASE MACHINE CO.,

Cleveland, Ohio, Nov. 22nd, 1902.

By FREDERICK METCALF, Treas.

PATENTS GUARANTEED

Mason, Fenwick & Lawrence

PATENT ATTORNEYS

AND EXPERTS

Established at Washington, D. C., 1861.

Branch Office, 432 Burke Bldg., SEATTLE.

PHONE BUFF 936

G. WARD KEMP, Attorney, Local Manager.

Patents, Caveats, Designs, Copyrights, Labels, Prints and Trade Marks, etc.

Infringements and appeals vigorously prosecuted in all courts of United States.

Prompt service. All fees reasonable. No extra charge for branch office attention.

FREE ADVICE AND GUIDE BOOK

Dabney, A. W.	917 McAllister St., S. F.
Daggett, H. M.	1409 East Eleventh St., Oakland
Dahl, C. W.	228 Eighth Ave., S. F.
Dahler, H. G.	Cor. Falcon and Moss Ave., S. F.
Daly, J. C.	456 Bryant St., S. F.
Daly, T. O.	1515 Washington St., S. F.
Dale, D. O.	1164 Twentieth St., Oakland
Dalton, W. H.	1059 Peralta St., Oakland
Damon, M. F.	711a Thirteenth St., S. F.
Davis, N. K.	1800 Broadway St., S. F.
Davis, R.	Panama, Care of P. M. S. S. Co.
Dawson, J. A.	3466 Twentieth St., S. F.
Dean, Frank.	111 Fulton St., S. F.
Dealy, R. M.	401 Harrison St., S. F.
Delaney, J. M.	551½ Howard St., S. F.
Delaney, Jos.	560 Howard St., S. F.
Denny, James.	914 Chestnut St., Alameda
Denmark, R. H.	306 Sanchez St., S. F.
Derrick, L. M.	705 Hyde St., S. F.
De Stein, Louis.	36 East St., S. F.
De Sylva, D.	1209 Guerrero St., S. F.
Detels, W.	2035 Howard St., S. F.
Devereaux, W. J.	236 Noe St., S. F.
Deveron, Duncan.	Cahto, Mendocino Co.
Dickey, M.	Steamship "Mineola"
Dickson, Geo.	3801 West St., Oakland
Dill, A.	232 Lexington Ave., S. F.
Dill, Jno. W.	2030 Buena Vista Ave., Alameda
Dixon, W. H.	1303 Seventh Ave., Alameda
Dobson, A.	707 Laguna St., S. F.
Dobson, C. H.	1117 Eden Park Ave., Fruitvale
Docker, Harry.	Santa Clara Ave., Alameda
Dohrman, Geo. W.	U. S. A. T. "Sherman"
Dominguez, R.	1010 Santa Clara Ave., Alameda
Donaldson, Robert.	339 Clementina St., S. F.
Donahue, T. F.	661 Shotwell St., S. F.
Donavan, P.	323 Vallejo St., S. F.
Donly, W. S.	117 Welsh St., S. F.
Donnelly, John.	719 Welsh St., S. F.
Donnelly, W. F.	1636 Golden Gate Ave., S. F.
Donelon, P. D.	Milton, Calaveras Co.
Donnison, H. J.	46 Elgin Park, S. F.
Dore, H. M.	2110 Magee St., Berkeley
Dorrity, A.	1451 Fulton St., S. F.
Dorrity, J. F.	1451 Fulton St., S. F.

The Albion Iron Works Co., Ltd.

ENGINEERS, FOUNDERS AND BOILERMAKERS
SHIP BUILDING AND SHIP REPAIRING

Marine and Land Engines and Boilers Built for Gov't Inspection

SPECIALTIES IN COMPLETE MINERS' OUTFITS

STEEL-RIVETED PIPE

Contracts given for all kinds of work. Repairs
executed with despatch. Castings of all de-
scriptions. Agents for Worthington Pumps.

Telephone 31. P. O. Box 601.

No. 6 Chatham Street

No. 71 Store Street

OFFICE AT WORKS:

VICTORIA, B. C. and VANCOUVER, B. C.

B. R. SEABROOK, General Manager.

C. RABEL,
President

A. E. DEIBERT,
Manager

O. R. RABEL,
Sec'y and Treas.

Star Machinery Co.

(INCORPORATED)

Manufacturers and Dealers in

Mining, Marine and Wood Working Machinery

PHONE MAIN 302

We Buy, Sell and Exchange Machinery of All Kinds

OFFICE AND WORKS:

115 WELLER ST., Cor. Occidental Ave., SEATTLE, WASH.

Dorward, D. J.	635 Guerrero St., S. F.
Dorward, J. E.	2273 Filbert St., S. F.
Douglas, W. E.	103½ Hayes St., S. F.
Douglas, W. G.	713 East Main St., Stockton
Dougherty, Geo.	58 Francis St., S. F.
Drennan, George	1189 Alakea St., Honolulu
Drennan, Nelson	1013 Eleventh Ave., East Oakland
Drew, Thos.	863 Bryant St., S. F.
Driscoll, D. I.	311 Minna St., S. F.
Driscoll, J. E.	3042 Pine St., S. F.
Drouillard, J.	52½ Silver St., S. F.
Duff, J. F.	708 Buchanan St., S. F.
Duff, T. E.	112 Fourth St., S. F.
Duffy, P.	309 Montcalm St., S. F.
Duffy, O.	712 Howard St., S. F.
Dunn, M. T.	4226 Twenty-sixth St., S. F.
Dunne, J. C.	1206½ Sutter St., S. F.
Dunham, Azariah	2515 Green St., S. F.
Dunlevy, W. O.	511a Page St., S. F.
Dunton, Oliver	129a O'Farrell St., S. F.
Durham, C. H.	1851 Stockton St., S. F.
Dykeman, John J.	1116 Taylor St., S. F.
Eberle, A.	2304 San Jose Ave., Alameda
Efford, R. J.	1407 Guerrero St., S. F.
Egan, W. V.	2628 Nineteenth St., S. F.
Elsasser, C. C.	1113 Pierce St., S. F.
Ely, Geo.	116 Twelfth St., S. F.
Emberton, T.	8½ Gilbert St., S. F.
English, John	731 Fulton St., S. F.
Ennor, P. L.	2562 Mission St., S. F.
Erskine, A.	Richmond, Contra Costa Co.
Evans, E.	Navy Pay Office, S. F.
Evans, J.	627 Beretania Ave., Honolulu
Evers, F. H.	4066 Twenty-third St., S. F.
Faget, J. B.	2712 Greenwich St., S. F.
Fairchild, G. H.	301 Scott St., S. F.
Faron, L. H.	San Bernardino
Farrell, John	753 Howard St., S. F.
Fawcett, J. A.	137 South Commerce St., Stockton
Ferguson, Geo. H.	Pacific Mail Steamship Co.
Ferguson, J.	36 East St., S. F.
Finn, L. J.	36 East St., S. F.
Finbreth, A. F.	411 Greenwich St., S. F.
Fisher, J.	1019 Post St., S. F.

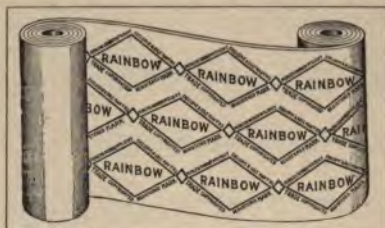
RAINBOW PACKING

MAKES STEAM FLANGE AND HOT WATER JOINTS INSTANTLY

THOUSANDS
OF IMITATORS

NO EQUAL

WILL HOLD
HIGHEST
PRESSURE



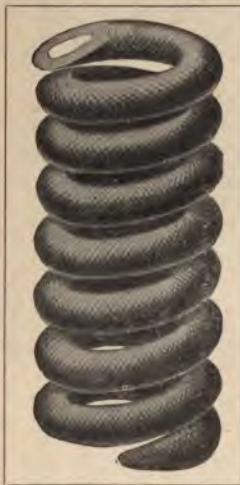
DON'T HAVE
TO USE WIRE
AND CLOTH TO
HOLD RAINBOW

CAN'T BLOW IT
OUT - - -

THE COLOR OF RAINBOW PACKING IS RED

See that our Trade Mark, the word "Rainbow" in a diamond, in three rows of diamonds in black, connected, extends throughout the entire length of each yard or roll.

THE PEERLESS SPIRAL PISTON AND VALVE ROD PACKING



It will hold 400 lbs. of steam. Once tried
always used.

1-4 TO 2 Inches Diameter

Will run twelve months in high speed engines.

IN BOXES 3 TO 8 POUNDS

Sole manufacturers of the famous "Eclipse Sectional Rainbow Gasket," "Honest John," "Hercules Combination," "Success," "Arctic," "Germane" and "Zero" packings.

WRITE FOR CATALOGUE

MANUFACTURED, PATENTED AND COPYRIGHTED EXCLUSIVELY BY

THE PEERLESS RUBBER MANUFACTURING CO.

16 WARREN STREET, NEW YORK

FOR SALE BY ALL FIRST CLASS DEALERS

Fitzgerald, F. G.	Benicia
Fitzpatrick, J. A.	107 Diamond St., S. F.
Fitzpatrick, J. P.	107 Diamond St., S. F.
Fitzsimmons, J. C.	421 Market St., S. F.
Flack, J. M.	2919 Folsom St., S. F.
Flanagan, J.	150 Hartford St., S. F.
Fletcher, H.	36 East St., S. F.
Flood, A. H.	1130 Stanyan St., S. F.
Floud, J. R.	260 Third Ave., S. F.
Flynn, J. F.	350 San Carlos Ave., S. F.
Flynn, Matt J.	214 Diamond St., S. F.
Foley, M.	1530 Morton St., Alameda
Foley, R.	1412 Fifteenth St., S. F.
Foord, J.	Steamship "Humboldt"
Forbes, J. R.	100 Fillmore St., S. F.
Forge, Charles R.	179 Thirteenth St., S. F.
Forrest, J. L.	164 South Park, S. F.
Fowler, Samuel.	St. Michaels
Fox, Wm.	8 Mission St., S. F.
France, F.	2 Center St., Amsterdam, N. Y.
Fredericks, Wm. G.	547 Taylor Ave., Alameda
French, E. J.	2316 Bryant St., S. F.
Friel, P.	708 Fulton St., S. F.
Frye, H. Z.	Russ House, Stockton
Fulmore, F. W.	418 Ivy Ave., S. F.
Gallagher, C. J.	1720 Fillmore St., S. F.
Galvin, J. F.	36 East St., S. F.
Gardner, F. A.	659 Broderick St., S. F.
Garratt, J. W.	147 Perry St., S. F.
Garvey, J.	790 Harrision St., S. F.
Gasslander, F.	1625 Dupont St., S. F.
Getliffe, F. C.	792 Ellis St., S. F.
Gibbs, C. F.	459 Guerrero St., S. F.
Gibson, A. B.	536 Hayes St., S. F.
Gillespie, J.	3318 Folsom St., S. F.
Gilliam, W. A.	2041 Lincoln St., Berkeley
Gillis, Sam.	3215 Twentieth St., S. F.
Godhier, W. A.	1023 Wood St., Oakland
Gomez, R.	Monk's Saloon, East St., S. F.
Gonzalez, L. S.	828 Pacific St., S. F.
Gonzales, A.	419 Harrison St., S. F.
Goodlad, A.	267 Clinton Park, S. F.
Gorman, B.	801 Harrison St., S. F.
Gorman, Dennis.	Sausalito

ROSLYN COAL

THE LEADING
LOCOMOTIVE,
STEAMSHIP AND
DOMESTIC FUEL
ON THE PACIFIC COAST

The Largest Coal Mine West of Mississippi River

DAILY OUTPUT 5,000 TONS

Electric and Gravity Bunkers

AT TACOMA AND SEATTLE

CARGO AND FUEL ORDERS A SPECIALTY

NORTHWESTERN IMPROVEMENT CO.

TACOMA, WASHINGTON

Telephone, Main 154

B. F. BUSH, Genl. Mgr.
ROSLYN, WASH.

JAMES RUSSELL, Agent
TACOMA, WASH.

Gould, F. C.	821 Santa Clara Ave., Alameda
Grace, D.	San Pedro
Grady, J. J.	40 Sharon St., S. F.
Graham, John	36 Clinton Place, S. F.
Graham, Wm.	75 South Park, S. F.
Grant, R.	1245 Pacific St., S. F.
Gray, Daniel	26 Turk St., S. F.
Gray, Edward	314 Seventh St., S. F.
Gray, M.	36 East St., S. F.
Green, C. E.	403 Harrison St., S. F.
Green, J.	281½ Moss St., S. F.
Green, L.	721 Montgomery St., S. F.
Greenwood, J. T.	109 O'Farrell St., S. F.
Griffith, S.	1827 Howard St., S. F.
Growney, Geo.	207 Capitol St., Vallejo
Grundell, C. L.	1638 Hyde St., S. F.
Grundell, J. H.	973 McAllister St., S. F.
Grundell, R. M.	138 South Park, S. F.
Hackett, J.	841 Seventeenth St., S. F.
Haines, S. N.	1330 Jessie St., S. F.
Haldkier, J.	Steamship "Progreso"
Haley, W. H.	343 Perry St., S. F.
Hall, Basil	Hotel Revere, Tacoma
Halloran, D.	128 West Seventh St., Eureka
Halpin, W.	1708 Eddy St., S. F.
Hamilton, Jos.	461 Bryant St., S. F.
Hamon, T. H.	Fruitvale
Handley, J. E.	3073 Twenty-second St., S. F.
Hannell, J. S.	461½ Bryant St., S. F.
Hansen, E.	Empire, Or.
Hansen, L. F.	134 Duncan St., S. F.
Hansen, Hakon	923 H. St., Eureka
Hansen, R.	Railroad Ave. and Williams St., Alameda
Hardy, E. B.	2010 University Ave., Berkeley
Harley, J.	816 Union St., Oakland
Harford, A. K.	Pahala, Hawaii
Harrigan, P.	36 East St., S. F.
Harrington, Wm.	20 Ninth St., Room 14, S. F.
Harris, G. L.	818 Hyde St., S. F.
Hartell, F. R.	1902a Powell St., S. F.
Hartsough, D.	1228 Filbert St., S. F.
Harvell, G.	1934½ Mission St., S. F.
Harvey, N. P.	118a San Jose Ave., S. F.
Harvey, B. F.	608 East Eighteenth St., Oakland



Alaska Company

INCORPORATED

CAPT. A. O. BENJAMIN,
President and Manager

BUYS AND SELLS

**Steamboats, Machinery, Hardware,
Ship Chandlery**

WRECKING AND TOWING

Diving Gear Kept in Stock

PHONE MAIN 777. RES., RED 7011.

312 Railroad Ave.

SEATTLE



Puget Sound Boiler Works

WM. NORTON, Proprietor

PRACTICAL BOILER MAKERS

AND MANUFACTURERS OF

MARINE, LOCOMOTIVE

AND

STATIONARY BOILERS

And all kinds of Sheet Iron Work

REPAIRING PROMPTLY ATTENDED TO AT REASONABLE RATES

Office Phone, Main 468. Res. Phone, Red 611.

A STREET, Near 21st,

TACOMA, WASH.

Hastorf, G.	Steamship "San Juan"
Hatch, C.	Eureka, Humboldt Co., Cal.
Haughton, John.	3669 Nineteenth St., S. F.
Haughton, J. W.	178 San Carlos Ave., S. F.
Hause, T. T.	254 Page St., S. F.
Hayes, H. B.	990 Fourth Ave., East Oakland
Hayes, P.	110½ Morris Ave., S. F.
Hayward, H. F.	Honolulu
Healey, A.	636 Forty-fourth St., Oakland
Healey, Jere.	1209 Fifteenth Ave., S. F.
Heany, T. F.	36 East St., S. F.
Heeney, T. J.	405 Geary St., S. F.
Helgeson, W.	433 Elizabeth St., S. F.
Helland, F. C.	P. M. S. S. Co.
Henneguin, A.	1102 Front St., San Diego
Henning, Bruno W.	12 Lexington Ave., S. F.
Herring, J.	136 East St., S. F.
Herlihy, P. H.	2535 Vallejo St., S. F.
Hickey, Owen.	925½ Mission St., S. F.
Hill, Robt.	1066 East Sixteenth St., Oakland
Hillman, D.	139 San Jose Ave., S. F.
Hildebrand, F.	1109 East Twenty-First St., Oakland
Hinton, W. S.	601 Polk St., S. F.
Hodgdon, J.	36 East St., S. F.
Hogan, F. E.	36 East St., S. F.
Hogan, W. F.	735 Capp St., S. F.
Holland, J. J.	Richmond Ferry
Holland, W. H.	Honolulu
Holmes, J.	217 Ettie St., S. F.
Holt, H. S.	26 Precita Ave., S. F.
Holtz, G.	3723 Twenty-second St., S. F.
Holtz, R.	3723 Twenty-second St., S. F.
Holtzman, I. K.	2355 Howard St., S. F.
Horgan, C. J.	Steamship "Alameda"
Hough, E.	1415 Eighth Ave., East Oakland
Houghton, E. P.	3033 Pierce St., S. F.
Houston, T. T.	52 Silver St., S. F.
Howell, James.	847 Valencia St., S. F.
Howell, W. F.	606 Hampshire St., S. F.
Howell, W. J.	3166 Twenty-third St., S. F.
Howland, J.	524 Bryant St., S. F.
Hoyle, M.	523 Folsom St., S. F.
Huber, F.	7 Market St., S. F.
Huckins, W.	367 Polk St., S. F.
Hughes, A. B.	O. R. N. Co., Astoria, Or.

CABLE ADDRESS: BULLEN, VICTORIA.
CODES USED: Watkins, Scotts, A 1, A. B. C. and Atlantic Cable Dir.

British Columbia Salvage Company, Limited

WRECKING STEAMER

And Most Complete Wrecking Equipment on the Pacific Coast

6, 10 and 16 INCH CENTRIFUGAL PUMPS

Iron and Wooden Vessels Built, Docked and Repaired. Naval Stores,
Paints and Antifouling Composition Kept in Stock.
Correspondence Solicited.

Address: P. O. Box 316, Victoria.

Address: P. O. Box 475, Vancouver.

CABLE ADDRESS: BULLEN, VICTORIA.
CODES USED: WATKINS, SCOTTS, A 1, A. B. C. AND ATLANTIC CABLE DIR.

BRITISH COLUMBIA *Marine Railways Company* LIMITED

CAPACITY 3,500 TONS GROSS

Railways at Esquimalt, Vancouver and Victoria

Iron and Wooden Vessels Built, Docked and Repaired
Naval Stores, Paints and Antifouling Composition Kept in Stock

Address: P. O. Box 316, Victoria.

Address: P. O. Box 475, Vancouver.

Hughes, Humphrey.....765 Grove St., Oakland
 Hughes, Jos.....323 Van Ness Ave., S. F.
 Hughes, J. J.....12 Camp St., S. F.
 Hughes, J. S.....Seattle, Wash.
 Hughes, R. E.....3973 Eighteenth St., S. F.
 Husar, C.....83 Henry St., S. F.
 Huson, C. L.....36 East St., S. F.
 Huston, E. B.....Steamship "Elder"
 Husby, K.....427½ Oak St., S. F.
 Hyde, A.....St. Nicholas Hotel, S. F.

Irwin, Chas.....Seattle, Wash.

Jackson, John.....239 Ritch St., S. F.
 Jackson, J. F.....1019 Buchanan St., S. F.
 Jacobs, W. S.....109½ Seventh St., S. F.
 Jacobowitz, Sigmund.....1659 Geary St., S. F.
 Jacobson, J. R.....239 Ritch St., S. F.
 James, F. V.....1142 Park Ave., Alameda
 Jarde, C. A.....152 Hawthorne St., S. F.
 Jennings, Hugh.....227 East St., S. F.
 Jennings, R. P.....300 Baker St., S. F.
 Jenny, C. E.....Eureka, Humboldt Co., Cal.
 Jensen, C. L.....3751 Twenty-third St., S. F.
 Jerome, A. E.....219 Ninth St., Oakland
 Johnson, Andrew.....216 Sunnyside Ave., S. F.
 Johnson, Aug. E.....438 Jersey St., S. F.
 Johnson, Gustave.....1365 Fifteenth St., Oakland
 Johnson, J. H.....1015 Dolores St., S. F.
 Johnson, Mart.....1512 Howard St., S. F.
 Johnson, Mitchell.....406 Brannan St., S. F.
 Johnson, P. G.....1110 Montgomery St., S. F.
 Johnson, R. S.....706½ Pine St., S. F.
 Johnston, J. C.....507 Andover St., S. F.
 Jones, A. B.....728a Carrol St., Brooklyn, N. Y.
 Jones, A. O.....257 Chestnut St., S. F.
 Jones, A. F.....1458 Guerrero St., S. F.
 Jones, F. A.....1616 Lafayette St., Alameda
 Jones, J. H.....1015 Dolores St., S. F.
 Josselyn, W. H.....960 Harrison St., S. F.

Kalstrom, H. F.....Lorin Station, Berkeley
 Kane, J. C.....918 Natoma St., S. F.
 Keen, W. A.....486 Castro St., S. F.
 Kell, T. E.....1533 Valencia St., S. F.

HIGHEST GRADE ONLY! THE BEST MADE!
FAIRBANKS-MORSE STEAM PUMPS

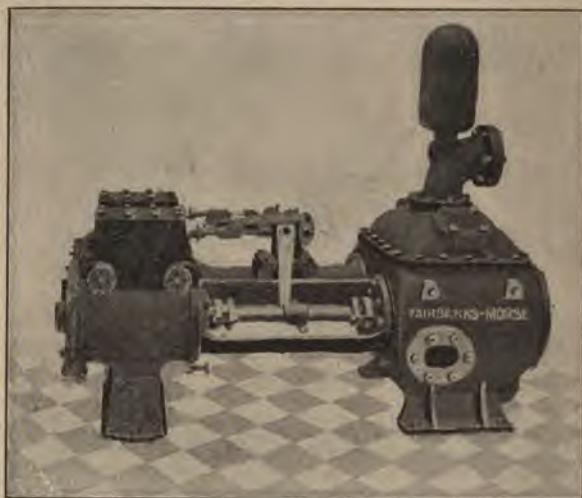
MOORE

CHAIN

HOISTS

$\frac{1}{4}$ to 10

TONS



STEEL

TACKLE

AND

SNATCH

BLOCKS

All Sizes

Asbesto-Silica Pipe and Boiler Covering. We invite Correspondence.

GEO. B. ADAIR & SON,

309 OCCIDENTAL AVENUE
 SEATTLE, WASH.

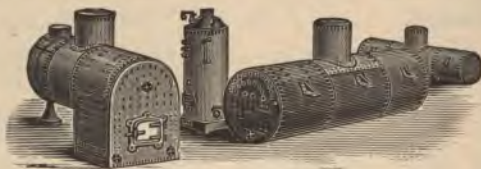
Telephone : Ballard, Red 541.

P. O. Box 127

BALLARD BOILER WORKS

PAUL HOPKINS & SON, Prop's

Marine Boilers a Specialty



REPAIRING DONE ON SHORT NOTICE

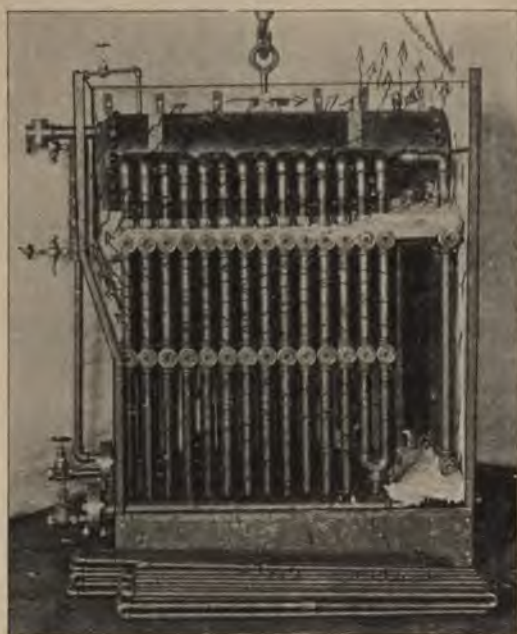
MANUFACTURERS OF

Boilers, Tanks and Sheet Iron Work of all Descriptions

Second Hand Boilers and Machinery Bought and Sold

BALLARD, WASH.

Keller, J. E.....	2629 Folsom St., S. F.
Kelley, John.....	937 Capp St., S. F.
Kelly, W. H.....	U. S. A. T. "Buford"
Kenney, G. W.....	205 Diamond St., S. F.
Kennedy, Thos.....	425a Bryant St., S. F.
Kerr, A. S.....	Elele, H. I.
Kerr, J. P.....	292 Chestnut St., S. F.
Killgore, R. R.....	1185 Valencia St., S. F.
Killgore, E. R.....	1185 Valencia St., S. F.
Killbride, G. F.....	433 Clementina St., S. F.
Kinneman, C. T.....	43 Clementina St., S. F.
King, C. E.....	3511 Twenty-third St., S. F.
King, D. W.....	115 Silver St., S. F.
King, F. M.....	Wilder Steamship Co., Honolulu
Kingsland, G. R.....	524 Hill St., S. F.
Kirk, J.....	301 First Ave., Seattle, Wash.
Koehler, F. A.....	1311 Santa Clara Ave., Alameda
Koen, Chas.....	732 Folsom St., S. F.
Kolb, Geo. A.....	1316 Octavia St., S. F.
Kramer, F.....	720 Buchanan St., S. F.
Kreher, O. M.....	U. S. A. T. "Thomas"
Kress, A. H.....	Broadway Wharf, S. F.
Krolm, F.....	2638 Hyde St., S. F.
Lacey, C. C.....	2621 Octavia St., S. F.
Lafferty, W. B.....	111 Fourteenth St., S. F.
Lamb, W.....	672 Eighteenth St., Oakland
Lampman, H.....	Steamship "Santa Rosa"
Lamson, Henry.....	Honolulu
Lane, W. T.....	1045 McAllister St., S. F.
Lange, E. A.....	230 Twenty-seventh St., S. F.
Lappin, T.....	528 Harrison St., S. F.
Lasswell, G. W.....	36 East St., S. F.
Layton, Abr.....	36 East St., S. F.
Larson, J. M.....	527 1/2 Shotwell St., S. F.
Layton, J. E. C.....	120 Sutter St., S. F.
Lawlor, D. M.....	Turk and Larxin St., S. F.
Lawlor, James.....	Steamship "Indiana"
Leadbetter, R.....	Elk River
Leach, John.....	148 Sixth St., S. F.
Le Ballister, A. E.....	233 Eastlake Ave., Seattle
Lee, C. A.....	2387 Howard St., S. F.
Legge, H.....	1623 Alcatraz Ave., Berkeley
Leheney, John F.....	1211 Eagle Ave., Alameda
Lehman, F. W.....	406 Beale St., S. F.



WOOD BURNING BOILER.

**Light Draft River
Steamers
Tugs
Passenger Boats
Yachts and Launches**

**ECONOMY
DURABILITY
RELIABILITY
POWER**

Why not have the best?
Why not know why it is
the best? We can tell you
and are glad to.

Our boilers are in the new
steamer "Arrow," tug
"Sampson," steamer "Sen-
tinel," yacht "Elk Kader,"
etc.

**TAYLOR WATER TUBE
BOILER CO.**

49 Riopelle Street,
DETROIT, MICH.

E. B. MARVIN

CAPT J. G. COX

F. W. ADAMS

E. B. MARVIN & CO.

SHIP CHANDLERS

IMPORTERS AND DEALERS IN

Ship and Steamboat Supplies

Sole Agents for British Columbia for

Toupton & New Bedford Copper Co. of New Bedford, Mass.

Agents for Francis Webster & Sons, Arbroath, Scotland

—TELEPHONE 15—

74 Wharf Street,

VICTORIA, B. C.

Lermond, C. G.	36 East St., S. F.
Leu, Adolph.	627 Santa Clara Ave., Alameda
Levy, M.	409 North Hunter St., Stockton
Levy, M.	419 North Hunter St., Stockton
Lewis, Chas.	560 Fifteenth St., Oakland
Lewis, Fred.	16 Moss St., S. F.
Lewis, R. J.	1110 Montgomery St., S. F.
Lewis, T. F.	Bandon, Oregon
Liebenow, H.	2022 Buena Vista Ave., Alameda
Lightner, C. C.	36 East St., S. F.
Likins, Frank.	3666 Sixteenth St., S. F.
Lind, H.	529 Second St., S. F.
Lindberg, B. A.	215 Hoffane Ave., S. F.
Linden, F. J.	1608 Turk St., S. F.
Lindsay, F. J.	907 Steiner St., S. F.
Lindsay, G. R.	907 Steiner St., S. F.
Linderman, Gus.	23 Stevenson St., S. F.
Linninger, L. W.	4034 Seventeenth St., Oakland
Lister, Henry B.	9 Mission St., S. F.
Little, A. D.	Steamship "Sonoma"
Little, J. M.	Honolulu
Little, T. R.	317 San Carlos Ave., S. F.
Littlefield, F. P.	U. S. A. T. "Logan"
Lockhart, G. W.	15 Henry St., S. F.
Lockhead, J.	Coles Station, Siskiyou Co.
Logan, W. D.	563 Forty-fifth St., Oakland
Long, C. M.	2134 Howard St., S. F.
Long, J. E.	714 Howard St., S. F.
Long, J. H.	1144 Howard St., S. F.
Long, J. M.	No. 1 Engine, Pacific St., S. F.
Longan, W.	624 Florida St., Vallejo
Lopez, A.	906 Filbert St., S. F.
Lowe, James.	2977 Twenty-first St., S. F.
Lowe, J. E.	29 Hollis St., S. F.
Luce, J.	745 Harrison St., S. F.
Lund, C. R.	454 Main St., S. F.
Lux, Henry.	1345 Pierce St., S. F.
Lycett, J.	738 1/2 Clementina St., S. F.
Magnusen, F.	Moultrie and Union Ave., S. F.
Maher, J. C.	749 Howard St., S. F.
Mahoney, Edward.	914 1/2 Oak St., S. F.
Mahoney, J. J.	Steamship "Acapulco"
Malcolmson, Thomas.	183 Fremont St., S. F.
Mann, O. G.	7 Fifth St., Vallejo

Good's Metal Works

JOHN E. GOOD, MANAGER

—MANUFACTURERS OF—

Good's Engine ^{AND} Armature

BABBITT

Good's No. 2 Babbitt

Good's No. 3 Babbitt

TELEPHONE MAIN 727

INDEPENDENT PHONE 727

606 FIRST AVE.

SEATTLE, ~ ~ WASH.

Mannie, Emmet E.....	435 Golden Gate Ave., S. F.
Marshall, G. M.....	1532 Polk St., S. F.
Marshall, Jas.....	524 Bryant St., S. F.
Marshall, Neil.....	1809 Sixth St., Port Huron, Mich.
Martin, D. C.....	933 Valencia St., S. F.
Martin, C. L.....	30 Chattanooga St., S. F.
Martland, B. K.....	1274 Nineteenth Ave., East Oakland
Mason, Frank.....	802 Fulton St., S. F.
Matlain, John.....	Steamer "Amador," Vallejo
Mausshardt, A.....	54 Portola St., S. F.
Mausshardt, E. C.....	623 Fell St., S. F.
Maxwell, Chas.....	228 East St., S. F.
May, F. H.....	139 Jersey St., S. F.
Maynard, Ernest.....	870 Peralta St., West Oakland
Mecredy, Wm. J.....	515 Oak St., S. F.
Meenan, Hugh.....	48 Clara St., S. F.
Merriman, Geo. M.....	1620 Lafayette St., Alameda
Mihan, P.....	10 Vicksburg St., S. F.
Miller, D. N.....	Steamer "J. D. Peters"
Miller, Henry.....	655 Shotwell St., S. F.
Miller, J. E. A.....	754 San Jose Ave., S. F.
Miller, Jos.....	Isleton, Sacramento Co.
Mitchell, C. H.....	Yosemite House, S. F.
Mitchell, J. M.....	2618 Market St., S. F.
Mitchell, James.....	620 Second St., Oakland
Mitchenson, J.....	1454 California St., S. F.
Moir, George.....	1025 Folsom St., S. F.
Moller, H.....	St. Michaels, Alaska
Moningar, J. S.....	1466 Fifth St., Oakland
Monro, Geo.....	354 Third St., S. F.
Montgomery, R.....	11 Monroe St., S. F.
Moody, J. A.....	352 East Twenty-second St., East Oakland
Moon, F. H.....	2917 Harrison St., S. F.
Moore, R. H.....	1730 Ninth St., Oakland
Moriarty, J. J.....	359 Haight St., S. F.
Morris, Ed. T.....	1380 Ninth Ave., East Oakland
Morris, J. B.....	289 Hudson St., N. Y.
Morris, Theo.....	501 Ellis St., S. F.
Morrissey, W. H.....	1400 Guerrero St., S. F.
Morse, C. E.....	1459 Guerrero St., S. F.
Morse, G. L.....	1459 Guerrero St., S. F.
Muirhead, J. S.....	Queen Hotel, Honolulu
Mullan, Daniel.....	316 Second Ave., S. F.
Mullin, J. P.....	1005 Hayes St., S. F.
Mullen, Wm.....	30 Waterville, St., S. F.

CHICAGO PNEUMATIC TOOL CO.

General Offices, Fisher Building, Chicago.

Eastern Offices, 95 Liberty Street, New York.



New Improved Pneumatic
Motor Hoists Built in all Sizes

Far Superior to any device of
like nature on the market.

Write for descriptive circulars and catalogs illustrating our unsurpassed line of Pneumatic Appliances of every kind and description.

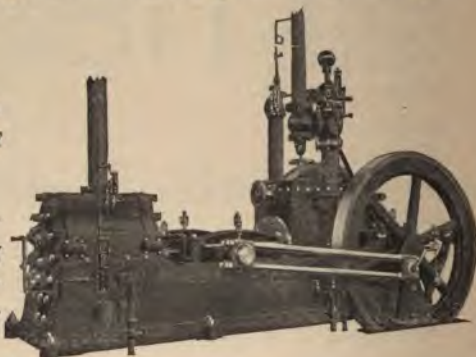


PNEUMATIC HAMMERS

Built in all capacities. Unexcelled workmanship and material.

No vibration. No delicate parts. No annoyance to operator.

Pneumatic Appliances of Every Kind and Description



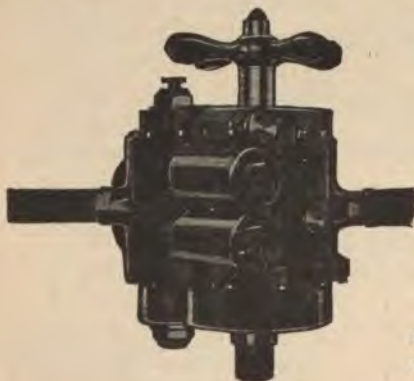
Air Compressors

of Finest Grade built in all
capacities.

**Complete Air Plants Installed
and the Entire Outfit
Fully Guaranteed**

PISTON AIR DRILLS

of all sizes. They have been accepted
as the standard wherever used.



Muller, D.....	36 East St., S. F.
Munro, Robt.....	920 Sixth Ave., East Oakland
Murphy, Ed.....	1017 Filbert St., S. F.
Murphy, Henry.....	520 Harrison St., S. F.
Murphy, Jos.....	2701½ Brannan St., S. F.
Murphy, J. J.....	3462 Seventeenth St., S. F.
Murphy, Jas. J.....	1081 Sixty-seventh St., Oakland
Murray, J. J.....	1160 Central St., S. F.
Murray, Rhody.....	Fruitvale
Murray, R. J.....	425 Thirteenth St., S. F.
Macdonald, Wm.....	36 Rincon Place, S. F.
McCabe, R. A.....	1221 Hayes St., S. F.
McCarthy, Eugene.....	2603 Eighteenth St., S. F.
McCarthy, John.....	1006 McAllister St., S. F.
McCarthy, Eugene.....	11201½ Vermont St., S. F.
McCauley, John.....	209 Eleventh St., S. F.
McClain, John.....	Benicia
McClure, Wm.....	1459 Guerrero St., S. F.
McColgan, D.....	2980 Twenty-fifth St., S. F.
McComb, E.....	2770 Twenty-second St., S. F.
McConnell, A.....	1229 Twenty-first Ave., East Oakland
McConologue, J.....	51 Pond St., S. F.
McCullough, A.....	50 Shotwell St., S. F.
McDermott, D. A.....	771 Howard St., S. F.
McDermott, J.....	1609 Fourth St., West Berkeley
McDevitt, Tom.....	1808 Scott St., S. F.
McDonald, Alex.....	1531 Leavenworth St., S. F.
McDonald, Chas.....	635 Golden Gate Ave., S. F.
McDonald, E. G.....	382 Fourteenth St., S. F.
McDonald, J. J.....	2027 Ashley Ave., Berkeley
McDonald, Thos.....	251½ Perry St., S. F.
McDonald, John.....	406 Brannan St., S. F.
McDonald, Archie.....	C. N. & T. Co., care of "T. C. Walker," S. F.
McEvoy, J.....	3117 Twenty-sixth St., S. F.
McFeeley, Chas.....	1253 Montgomery St., S. F.
McGillan, John.....	1578 Fifteenth St., S. F.
McGowan, J.....	Box 97, Stockton
McGregor, Alex.....	1613 Howard St., S. F.
McGrory, Thos.....	509 Broderick St., S. F.
McGuy, Frank.....	Sausalito
McIntosh, Chas.....	Care of Steamship "Kimball," S. F.
McIntosh, John.....	36 East St., S. F.
McIntosh, J. F.....	3524 Twenty-first St., S. F.
McIntyre, Calvin.....	"The Longworth," Geary St., S. F.

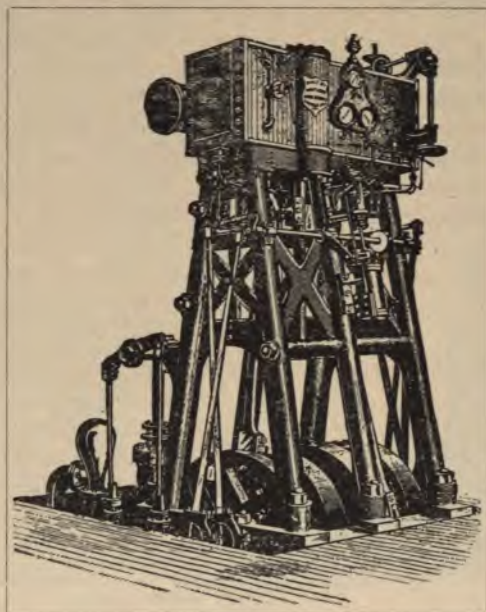
T. J. SCANLON

A. K. ALLEN

Marine Iron Works

WE BUILD AND REPAIR

M
A
R
I
N
E



M
I
L
L
I
N
G

—AND—

MINING MACHINERY

MARINE WORK IS OUR SPECIALTY

PHONE MAIN 704

121 WELLER ST.

SEATTLE, WASH.

McIver, Jas.....	2 Cleveland St., S. F.
McKenna, J. D.....	36 East St., S. F.
McKenzie, C. M.....	54 Portola St., S. F.
McKeon, J.....	140 Hancock St., S. F.
McKinnon, D.....	U. S. A. T. "Logan," Mare Island
McKinnon, M.....	2120 Catharine St., Berkeley
McLay, R.....	2667 Mission St., S. F.
McLean, F.....	2410 Larkin St., S. F.
McMillan, C. C.....	U. S. Hydrographic Office, Merchants' Exchange, S. F.
McMullan, H. F.....	Pacific Mail Dock
McNally, J. J.....	36 East St., S. F.
McQuade, Ed.....	1305 Harrison St., S. F.
McQuade, Hugh.....	38a Silver St., S. F.
McStay, J. J.....	2218 San Jose Ave., Alameda
McWhinney, J. S.....	134 Fourth St., S. F.
McWilliams, J. H.....	17 Scott St., S. F.
Nagle, Martin.....	36 East St., S. F.
Nairn, John.....	1061½ Haight St., S. F.
Neal, Wm.....	1010 Treat Ave., S. F.
Neil, Geo.....	425 Third St., S. F.
Neiman, W. H.....	1621 Scenic Ave., Berkeley
Nelson, C. F.....	215 Hoffman Ave., S. F.
Nelson, Th.....	1371½ Silver St., S. F.
Nichol, A.....	Honolulu
Nichol, W.....	Elmhurst, Alameda
Nicholson, M. W.....	181½ Page St., S. F.
Nisson, J. B.....	817 Myrtle St., Oakland
Norton, Peter.....	2008a Howard St., S. F.
O'Brien, John.....	121 Liberty St., N. Y.
O'Connor, James.....	Dewey House, East St., S. F.
O'Connor, J. F.....	921 York St., S. F.
O'Donnell, F.....	36 East St., S. F.
O'Donnell, W. H.....	1206½ Polk St., S. F.
O'Hara, Chas.....	529 Second St., S. F.
O'Hara, Eugene.....	714 Treat Ave., S. F.
Ojeda, Robt.....	925½ Mission St., S. F.
O'Neal, B.....	925 Natoma St., S. F.
O'Neal, J.....	928 Hudson St., N. Y.
O'Neil, J. J.....	3 Pacific Ave., Alameda
O'Neil, R. P.....	331 Jersey St., S. F.
O'Reilly, Chas.....	401 Bryant St., S. F.
Olsen, M.....	1533 Prince St., Lorin, Berkeley

OFFICE WITH W. R. CHESLEY & CO., SEATTLE

PHONES

Office, John 2221 Residence, Brown 1551

ELLIOTT BAY TUG BOAT COMPANY



STEAMER LUMBERMAN

Towing and Jobbing OF ALL KINDS Short Notice
DONE ON . . .

RATES REASONABLE

PARTIES WISHING WORK DONE WILL APPLY
ON BOARD OR AT OFFICE

BERTH:
CHESLEY DOCK FOOT OF
 KING ST.

D. THOMAS DAVIES
MANAGER

Olsson, E.....	1517 Ellis St., S. F.
Ormond, W.....	1435 Fifth St., Alameda
Osman, W. C.....	2309 Larkin St., S. F.
Ostrander, A. D.....	32 First St., S. F.
Owen, Peter.....	2637 Mission St., S. F.
Padgett, Wm.....	437 1/2 Fourth St., S. F.
Palmer, Thos.....	250 East St., S. F.
Parker, J. B.....	409 Broderick St., S. F.
Parritt, A. S.....	Benicia
Parsons, C. B.....	841 Thirteenth St., S. F.
Parsons, E. A.....	Steamship "Queen"
Partridge, E. B.....	899 Pine St., S. F.
Patterson, E. L.....	367 Clementina St., S. F.
Patterson, F. W.....	134 Duncan St., S. F.
Paul, G. H.....	1060 Post St., S. F.
Paul, R. H.....	408 1/2 Natoma St., S. F.
Paul, Robert.....	U. S. A. T. "Sheridan"
Peacock, J. C.....	5853 McCall St., Oakland
Pegg, E. F.....	754 Oak St., S. F.
Pegg, A. O.....	754 Oak St., S. F.
Pearce, W.....	36 East St., S. F.
Peltret, P. G.....	909 Guerrero St., S. F.
Pendergast, J. J.....	540 Santa Clara Ave., Alameda
Pendleton, Chas. L.....	525 Court St., Alameda
Peralta, Max.....	39 Sanchez St., S. F.
Percival, A. F.....	212 Eighth St., Oakland
Perow, W. G.....	72 McLea Court, S. F.
Perry, J. V. B.....	1421 Taylor St., S. F.
Peters, F. L.....	36 East St., S. F.
Peterson, A. F.....	1610 Green St., S. F.
Peterson, A. N.....	1507 Devisadero St., S. F.
Peterson, Gus.....	174 Seventh Ave., S. F.
Petroffki, J.....	775 Folsom St., S. F.
Peverly, R.....	Steamship "Hamakura Maru," care of
.....	F. M. Studly, Manager Nippin Yusen Kaisha, Seattle
Pierce, W. S.....	36 East St., S. F.
Pierson, R. R.....	405 Broderick St., S. F.
Pierson, W. H.....	961 Market St., Oakland
Pitts, W. R.....	1483 Valencia St., S. F.
Pizzotti, T.....	771 Howard St., S. F.
Plaskett, P. L.....	540 Fillmore St., S. F.
Platts, H. J.....	Honolulu, care of I. I. S. S. Co.
Plumb, Amasa.....	119 Chattanooga St., S. F.
Plunkett, W. A.....	119 Castro St., S. F.

LILLIE EVAPORATORS; Vacuum Pans; Valvoline Oils; Sugar Works and Mill Gearings, all Improved Sizes and Kinds; Krajewski's Patent Cane Crusher; Sugar Coolers; Cooler Cars and Steel Tanks. Sole Agents National Tube Co., New York. . . .

**=HONOLULU=
IRON WORKS CO.**

**SUGAR MACHINERY
MARINE WORKS
ENGINEERS' SUPPLIES**

HONOLULU, T. H.

MULTIPLE EFFECTS, Double, Triple and Quadruple Plate and Sheet Iron Work; Iron and Brass Cuttings; Plate and Sheet Iron Work; Steam Boilers, Land Portable, Marine; Steel Plates; Machine Bolts; Angle Bars and Rivets; Iron and Steel Forgings; Steam Valves and Pipe Fittings; Engine Findings of all Sizes; Rivited Irrigating Piping; Water Pipe; Steam and Well Casing. : : : : : : : : : :

Poole, C. W.....Honolulu
 Poole, A. R.....56 Hardy St., S. F.
 Porter, W.....2712 Greenwich St., S. F.
 Powell, H. N.....1212 Dolores St., S. F.
 Powell, J. M.....403 Oak St., S. F.
 Powers, E. J.....301 Fifth St., S. F.
 Prosch, O.....1311 Howard St., S. F.
 Purcell, A.....902 Greenwich St., S. F.
 Purdie, J. S.....1343 Allapai St., Honolulu
 Purington, W. E.....Steamship "Pleiades"
 Putzar, E. L.....1708 Thirteenth St., West Oakland
 Putzar, F. D.....1710 Thirteenth St., West Oakland
 Putzar, L.....1710 Thirteenth St., West Oakland

Quinlan, James.....Honolulu
 Quinn, G. W.....1132 Shotwell St., S. F.
 Quinn, J. H.....2450 Fulton St., S. F.
 Quinn, N. P.....504 Jessie St., S. F.

Ramm, P. F.....4131 Eighteenth St., S. F.
 Ranlett, J. S.....128 Second St., S. F.
 Raphael, J.....1635 Felton St., Loring, Alameda
 Ravn, J.....1360 Vallejo St., S. F.
 Raymond, H.....447 Elizabeth St., S. F.
 Redmond, Samuel.....1919 Polk St., S. F.
 Reagan, James.....935½ Jackson, St., S. F.
 Reed, Andrew.....521 Seventh St., S. F.
 Reed, C. C.....Berkeley
 Reed, G. E.....1026 Peralta St., Oakland
 Reed, G. F.....1614 Scott St., S. F.
 Reed, G. W.....36 East St., S. F.
 Reed, J. A.....41 Natoma St., S. F.
 Reed, L. J.....1057 Twelfth Ave., Oakland
 Regan, Jeremiah.....Steamship "Washtenaw"
 Regan, J. D.....1915 Eleventh Ave., Altoona, Penn.
 Reitz, B.....Plaza Palace, San Diego
 Reilly, W. F.....S. F. F. D. Corporation Yard, S. F.
 Rickards, A.....Astoria, Oregon
 Richards, J. S.....Steamship "Australia," Pier 7, S. F.
 Richardson, R.....12 Metcalf Place, S. F.
 Riley, J. M.....32 Cheney St., S. F.
 Riordan, P. J.....57 Carmelita St., S. F.
 Roberts, G. G.....916 Howard St., S. F.
 Roberts, Manly.....39 Henry St., S. F.
 Roberts, W.....Benicia

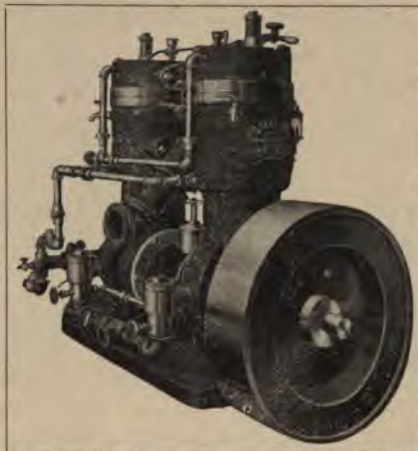
WM. CAMPBELL & SONS

MACHINISTS—ENGINEERS—MILLWRIGHTS—JOBBER

Marine Work
Promptly
Attended to.

Repair Work
Our Specialty

TEL. Main 1288



Second-hand
Boilers, Engines,
Gas Engines and
Machinery
FOR SALE

Agents for
Smalley Bros.
Marine Gas
Engines

LOCATION: STETSON & POST MILL PROPERTY

Clark Miller Co.

Successor to T. F. CLARK & CO.

GENERAL SHEET METAL WORKS

Boat Work and Mill Work a Specialty

Stacks, Crowles Ventilators and Ventilating

TELEPHONE MAIN 487

OFFICE 107 WEST MADISON ST.
SHOP 918-920 WESTERN AVENUE

Seattle, Wash.

Robinson, J. H.....	2135 Blake St., East Blakeley
Robinson, R. G.....	2711 Octavia St., S. F.
Robinson, R. G., Jr.....	2711 Octavia St., S. F.
Robinson, W. W.....	530 Harrison St., S. F.
Robertson, A.....	413 Bartlett St., S. F.
Robke, A. A.....	1340 Pine St., S. F.
Rodgers, Wm. J.....	1553 Railroad Ave., Alameda
Rogers, Harry.....	725 Fifth St., Eureka
Rogers, Walt. J.....	376 Fourth St., S. F.
Rose, B. V.....	433a Tehama St., S. F.
Rose, W. D.....	Union Transportation Co., Clay St., S. F.
Rossiter, Paul.....	900 Chestnut St., Alameda
Rowe, Geo.....	1411 Eighteenth St., West Oakland
Rowe, George O.....	1548 Kentucky St., S. F.
Rowley, U. G.....	202 Grove St., S. F.
Ruffner, C.....	P. of B., 143 Berry St., S. F.
Rush, C. A.....	Steamer "McDowell," Clay St., Wharf, S. F.
Ruxton, A.....	4171 Twentieth St., S. F.
Ryan, J. C.....	511 Eddy St., S. F.
Salmon, Thos.....	127 Seventh St., S. F.
Saloman, J. M.....	36 East St., S. F.
Sampson, A.....	1906 Bank Ave., West Superior, Wis.
Sandstrom, Aug.....	Sausalito
Sandstrom, Chas.....	215 Hoffman Ave., S. F.
Sandstrom, Gus.....	213 Hoffman Ave., S. F.
Savage, P.....	473 Vermont St., S. F.
Savage, W. D.....	743 Vermont St., S. F.
Sawdon, T. T.....	111 Scott St., S. F.
Scandrett, A. J.....	526 Harrison St., S. F.
Schmith, G.....	523 Valencia St., S. F.
Schneider, H.....	731 Ivy Ave., S. F.
Schneider, J. F.....	San Rafael
Schnewter, Paul.....	818 Alder St., Seattle
Schoppe, Chas.....	21 Stanley Place, S. F.
Schultz, J. H.....	212 Douglas St., S. F.
Scott, C. E.....	Belvedere St., Belvedere
Scott, Geo.....	Belvedere
Scott, Geo.....	121 Fillmore St., S. F.
Scott, Jno.....	436 Ellis St., S. F.
Scott, W.....	2275 Geary St., S. F.
Scully, J. F.....	1626 Folsom St., S. F.
Seary, J. J.....	1429 Mission St., S. F.
Seaver, A. H.....	Steamship "Hong Kong Maru"
Selfridge, J. R.....	Switzerland

Electrical Supplies

OF ALL KINDS

MARINE WORK

A SPECIALTY

WRITE US FOR ESTIMATES

F. W. HICKS MANTEL, GRATE AND TILE CO.

732 PACIFIC AVENUE

Phone Main 626.

TACOMA, WASH.

Colman Dock

Tel. Black 331

C. M. SHAW & CO.

ENGINEERS' SUPPLIES

STEAM FITTINGS

SHIP PLUMBING

SOUTH SIDE COLMAN DOCK

SEATTLE, WASH.

Selfridge, T. A.....	50 South Park, S. F.
Sellender, Fred.....	460 East Twentieth St., Oakland
Sellender, H.....	460 East Twentieth St., Oakland
Serganovich, F.....	89 Rausch St., S. F.
Shanahan, D.....	1314 Folsom St., S. F.
Shannon, M. T.....	63 Langton St., S. F.
Shepherd, F. F.....	548 Palace Court, Alameda
Shepherd, P. C.....	107½ Collingwood St., S. F.
Sheedy, Jos.....	U. S. A. T. "Rosecrans"
Shipman, S. A.....	3434 Seventeenth St., S. F.
Shirley, J.....	2707 Mariposa St., S. F.
Shoe, W. B.....	36 East St., S. F.
Short, Miles.....	753 Howard St., S. F.
Short, Thos.....	P. O. Box 121, Fruitvale
Simpson, H. R.....	326 Golden Gate Ave., S. F.
Skinner, F. G.....	1217 Santa Clara Ave., Alameda
Slattery, Wm.....	711 Shotwell St., S. F.
Small, F.*.....	108 Haight St., S. F.
Smith, Axel.....	2846 Folsom St., S. F.
Smith, A. T.....	1203 G St., Eureka
Smith, Chas.....	919 Powell St., S. F.
Smith, E. C.....	452 Haight St., S. F.
Smith, I. H.....	553 Harrison St., S. F.
Smith, H. C.....	San Rafael
Smith, J. H.....	506 Capital St., Vallejo
Smith, J. W.....	434½ Jessie St., S. F.
Smith, P. E.....	32 Belvedere St., S. F.
Smith, Thos.....	St. Michaels
Smith, F. R.....	Benicia
Sparks, E. R.....	36 East St., S. F.
Spencer, J. M.....	131 South Park, S. F.
Spencer, R. B.....	36 East St., S. F.
Spencer, Thos. W. C.....	2625 Twenty-first St., S. F.
Stacey, W. A.....	1158 San Pablo Ave., Oakland
Stackhouse, C.....	437 Golden Gate Ave., S. F.
Stahl, R. H.....	127 Ellis St., S. F.
Steagall, E.....	50 South Park, S. F.
Steele, T. W.....	1511 Fifth St., Alameda
Steen, Emil.....	28 East St., S. F.
Steen, T. W.....	1161 Perry St., S. F.
Stevens, Alex.....	
Stevens, John.....	P. O. West Berkeley
Stevens, P. A.....	177 Clara St., S. F.
Stevenson, J.....	Livermore
Stewart, G.....	267 Clinton Park, S. F.

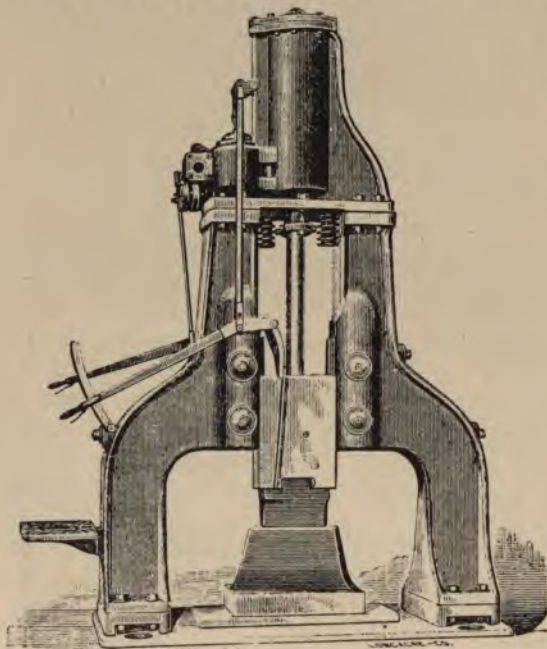
ROBERT G. WESTERMAN, Prest.

A. T. TIMMERMAN, Sec'y

Telephone Rainier 10

WESTERMAN IRON WORKS

The Most Complete Plant in the Northwest



We Make a Specialty

OF

Engine

Steamboat

AND

Ship

Forgings

1120

First Ave. South,

Cor. Connecticut St., SEATTLE, WASH.

GEORGE JAMES & CO.

TEL. MAIN 386

VARIETY IRON WORKS

Marine Castings
Hotel Ranges
General Jobbing
Mill Castings

Manufacturers and Jobbers
Castings of All Kinds

ARCHITECTURAL AND MACHINE CASTINGS

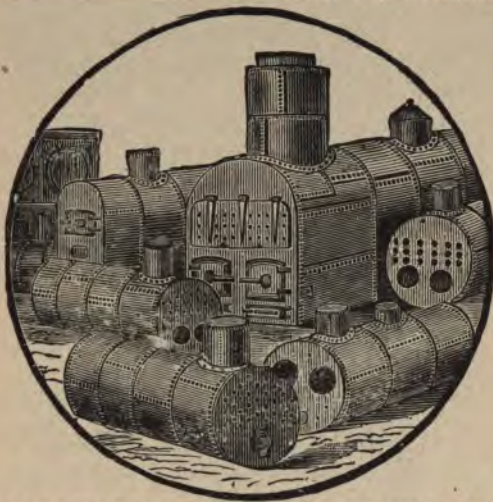
1241 to 1245 UTAH ST., Tide Flats

SEATTLE, WASH.

Stewart, T. G.	36 East St., S. F.
Stott, J. H.	2601 Eighteenth St., S. F.
Stull, J. F.	314 Sixth St., S. F.
Sullivan, J. F.	1319 Delaware St., West Berkeley
Sullivan, John	712 Folsom St., S. F.
Sullivan, J. J.	1823½ Howard St., S. F.
Sullivan, M. D.	3821 Twenty-fifth St., S. F.
Sullivan, F. J.	P. M. S. S. Wharf, S. F.
Sullivan, W. D.	911 Treat Ave., S. F.
Sutherland, J.	Honolulu
Suter, C. C.	110 Eddy St., S. F.
Swain, E. W.	536 Thirty-second St., Oakland
Swain, L. C.	409 California St., S. F.
Swainson, E.	821 East Sixteenth St., Oakland
Swan, W. S.	1145 Guerrero St., S. F.
Sweeney, A. D.	Care of O. R. & N. Co., Portland
Swisher, L. M.	2255 San Jose Ave., Alameda
Tabrett, H. C.	3847 Twenty-first St., S. F.
Tahaney, P.	1461 Thirteenth St., Oakland
Tally, J. J.	146 Thirteenth St., Oakland
Teggart, J.	1303 Harrison St., S. F.
Talman, C. W.	San Pedro
Terry, C. H.	
Thom, C. W.	21 Rondell Place, S. F.
Thomas, A. L.	80 South Park, S. F.
Thomas, F. G.	Steamship "Queen"
Thompson, C.	3530 Twenty-fourth St., S. F.
Thompson, G. H.	Redwood, San Mateo Co.
Thompson, H. K.	1617 Bay St., Alameda
Thompson, Simpson	1419 Hayes St., S. F.
Thompson, Wm.	562 Lombard St., S. F.
Thorn, S. W.	36 East St., S. F.
Thurston, C. M.	212 Ninth Ave., South Seattle
Tiernan, Chas.	259 Precita Ave., S. F.
Tillotson, H. I.	1564 Eighth Ave., East Oakland
Tillman, L.	1916 Mason St., S. F.
Todd, Jeff.	631 Sacramento St., S. F.
Todman, M. H.	1822 Union St., Alameda
Tomlin, Richard L.	Sebastopol, Cal.
Tomlinson, T. L.	53 Noe St., S. F.
Torbert, C. W.	232 East One-hundredth St., N. Y.
Torrance, Edw.	Yosemite House, S. F.
Tracy, Chas. H.	1729 Francisco St., Berkeley
Tracy, Thomas	36 East St., S. F.

PUGET SOUND BOILER WORKS

J. TODD, Proprietor



—MANUFACTURER OF—

SMOKE STACKS, BREECH-
INGS, TANKS, CANNERY
RETORTS AND TRAYS,
STEAM FITTING AND
PIPE WORK.

SHEET IRON WORK OF
EVERY DESCRIPTION.

MINING CARS, ORE BUCK-
ETS CONVEYORS, ETC.

NEW AND SECOND HAND
BOILERS BOUGHT AND
SOLD.

REPAIR WORK, ESTIMATES
FURNISHED.

STATIONARY, LOCOMOTIVE AND MARINE BOILERS

—TELEPHONE MAIN 1293—

Office and Works Railroad Ave., bet. Seneca and University Sts.

SEATTLE, WASH.

Tel. Main 205.

Res. Tel. Red 3611

Ollard Iron Works

FOUNDRY, MACHINE AND FORGE SHOPS

Heavy Iron Work

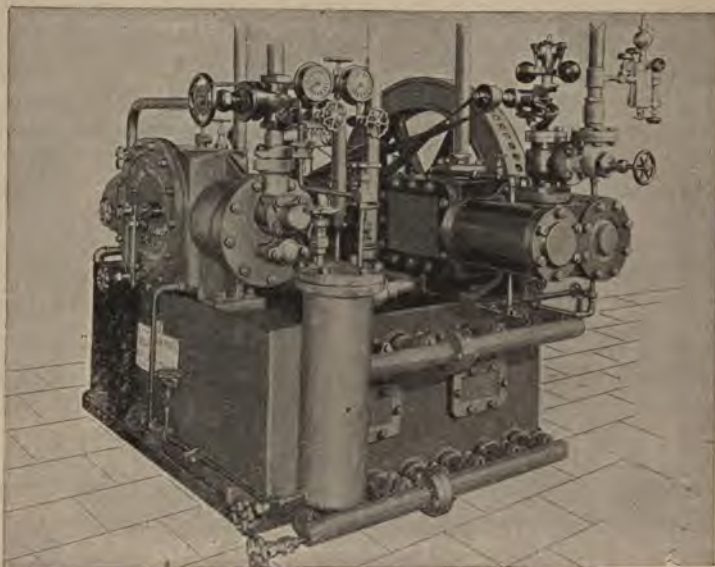
Iron and Brass Castings

Northern Pacific Docks
and at Bailey Street,

TACOMA

Traynor, J.....	Box 46, San Lorenzo
Trimble, A. E.....	1510 Powell St., S. F.
Trimble, C. S.....	608 Capp St., S. F.
True, Charles S.....	36 East St., S. F.
Tucker, E. E.....	1638 Hyde St., S. F.
Care of C. L. Grundell.	
Tucker, E. W.....	818 Page St., S. F.
Tuckey, Bert.....	1326 Union St., S. F.
Tuckey, A. R.....	Mill Valley
Turkington, R. R.....	15 Landers St., S. F.
Untgen, Ole.....	1152 Campbell St., Oakland
Van Tassel, O.....	118 Twelfth St., S. F.
Venable, Jos.....	1416 Broadway St., S. F.
Venker, H. H.....	925 1/2 Mission St., S. F.
Vivian, Chas.....	Steamship "Bristol"
Wall, Con. A.....	1738 Alcatraz Ave., Lorin, Berkeley
Wall, C. J.....	324 Bush St., S. F.
Wallace, Charles.....	316 Utah St., S. F.
Wallace, John.....	Vallejo
Walker, H. E.....	53 Noe St., S. F.
Walker, Wm.....	1015 Pine St., Oakland
Walsh, F. J.....	2615 Howard St., S. F.
Walsh, Wm.....	645 Market St., S. F.
Walters, Wm.....	731 1/2 Natoma St., S. F.
Ward, Jas.....	1026 Noe St., S. F.
Wardell, A. P.....	184 South Park, S. F.
Warin, Wm.....	36 East St., S. F.
Warner, Fred.....	342 Third St., S. F.
Warness, A. C.....	1254 Campbell St., Oakland
Warness, P. A.....	1130 Center St., Oakland
Waterman, E. H.....	3371 Twenty-third St., S. F.
Week, G.....	706 Douglass St., S. F.
Welden, G. Q.....	U. S. S. "Columbine," Astoria
Weller, J. C.....	192 Linden Ave., S. F.
Welton, J. W.....	3823 Nineteenth St., S. F.
West, J. H.....	704 Howard St., S. F.
West, Sydney.....	423 1/2 Mississippi St., S. F.
West, W. E.....	C. N. & I. Co., Washington St., S. F.
Wharton, H. A.....	Aieaoahn, H. I.
Wheeler, B.....	Honolulu
White, W. W.....	167 East Tenth St., Oakland
Whitehill, W.....	2494 Sixteenth St., S. F.
Whittaker, John.....	879 Shotwell St., S. F.

Marine Refrigeration



VULCAN REFRIGERATING PLANTS

REFERENCES:

U. S. A. TRANSPORTS—8	PACIFIC COLD STORAGE CO.'S STEAMERS—3
PACIFIC MAIL S. S. CO.'S STEAMERS—14	KIMBALL STEAMSHIP CO.'S STEAMER—1
OCRAIC STEAMSHIP CO.'S STEAMERS—7	GLOBE NAVIGATION CO.'S STEAMER—1
PACIFIC COAST S. S. CO.'S STEAMERS—5	MATSON NAVIGATION CO.'S STEAMER—1
PACIFIC STEAM NAVIGATION CO.'S STEAMER—1	

VULCAN IRON WORKS

(ESTABLISHED 1851)

SAN FRANCISCO, CAL., U. S. A.

FURNISHING GOODS

HATS, CAPS, ETC.

F. W. MERRICK

The American Clothier

PHONE BLUE 391

703 FIRST AVENUE,

SEATTLE, WASH.

Whyers, L. H.....	510 J St., Sacramento
Wiggins, W. H.....	1894 Mission St., S. F.
Wilhelmson, L.....	4417 Twenty-third St., S. F.
Wilkinson, R. E.....	712 Folsom St., S. F.
Williams, A. E.....	128 Fair Oaks St., S. F.
Williams, Earnest C.....	1309 1/2 Santa Clara Ave., Alameda
Williams, Morgan.....	Benicia
Williams, J. S.....	449 Point Lobos Ave., S. F.
Williams, R. R.....	765 Grove St., Oakland
Willson, E. W.....	Steamship "Cottage City"
Willson, James.....	16 Moss St., S. F.
Willson, J. Y.....	Eureka
Wilson, J. T.....	306 Eighth St., Eureka
Winkler, H. C.....	130 Casselli Ave., S. F.
Winning, Edward.....	924 Broadway St., S. F.
Winter, E. V.....	421 Tenth St., S. F.
Witherby, C. S.....	64 Sycamore Ave., S. F.
Wolf, Edward.....	303 1/2 Mason St., S. F.
Wolters, H. J.....	610 Elizabeth St., S. F.
Wolters, J. B.....	224 Bay View St., San Rafael
Wood, J. W.....	1226 Kearny St., S. F.
Woods, Enos.....	2335 Bryant St., S. F.
Woods, E. P.....	523 Second St., S. F.
Woods, Jos.....	523 Second St., S. F.
Woodward, A. W.....	1124 East Cherry St., Seattle, Wash.
Woodward, Frank.....	Jackson St. Wharf, S. F.
Wooten, H. S.....	Box 793, Honolulu
Worrell, W.....	U. S. A. T. "Sheridan"
Wosser, J. J.....	Sausalito
Wosser, R.....	2429 Larkin St., S. F.
Wosser, T. J.....	Sausalito
Wren, N. A.....	Douglas City
Wright, E. H.....	113 1/2 Fell St., S. F.
Wyer, John.....	298 Hudson St., S. F.
Wyer, John.....	298 Hudson St., N. Y.
Wynne, J. E.....	412 Larkin St., S. F.
Wynne, W. H.....	1320 Vermont St., S. F., Cal.
Yoachum, R. L.....	2629 Folsom St., S. F.
Young, Andrew.....	Wilmington
Young, T. J.....	3755 Sacramento St., S. F.
Young, Wm.....	Steamship "City of Panama"
Young, E. T.....	2131 Santa Clara Ave., Alameda
Zolesi, L. B.....	427 Union St.

FOR MARINE USE THE NEW AUTO=POSITIVE



HIGH PRESSURE HOT WATER
RE-STARTING INJECTOR

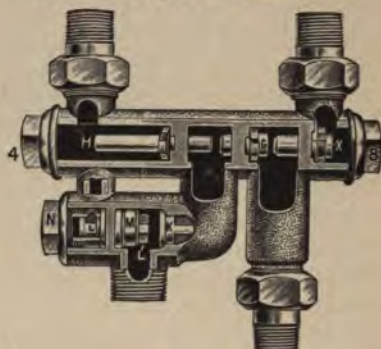
WITH ONLY FIVE WORKING PARTS

This Injector accomplishes results heretofore obtained only by complicated "double tube" or "Positive" Injectors.

Works high, to 200 lbs steam.

Specials made to 225 lbs.

Handles hot water up to 135° to 140° Fahr.



THE



FORCE FEED LUBRICATOR

(McCLURE PATENT)

IS A WINNER

Designed by a lake engineer and largely adopted by lake steamers. Will feed any oil and operate at any speed.



FOR LUBRICATING MARINE
ENGINES

WRITE FOR CIRCULARS

PENBERTHY INJECTOR CO.

342 Holden Ave.,

DETROIT, MICH.

LARGEST INJECTOR MANUFACTURERS IN THE WORLD

Hoffman, W. H.	809 Corbett St.
Hardy, Thos.	224 Marquam Bldg., Portland, Or.
Healy, Jas.	206 Union Ave. North
Hartman, S. M.	Esmond Hotel
Hayes, H. E.	34 aEts 9th St.
Holt, F. A.	Astoria, Or.
Hayes, Dick	34 East 9th St.
Hayes, F. J.	1337 East 8th St., Woodlawn
Hupprich	673 Macadam St.
Harris, W. E.	335 Washington St.
Healy, Thos.	206 Union Ave. North
Jackson, A.	185 thirteenth St., Portland, Or.
Jennings, Chas.	229 Golden Gate Ave., S. F., Cal.
Kidd, J. T.	224 Marquam Bldg., Portland, Or.
Kane, J. E.	455 Marshall St., Portland, Or.
Kent, Jas.	295 22nd St., North, Portland, Or.
Kellogg, C. D.	921½ Grand Ave., Portland, Or.
Kern, E. A.	733 East 8th St., Portland, Or.
Levaro, S. V.	Astoria, Or.
Linley, H.	224 Marquam Bldg., Portland, Or.
Lobell, Wm. T.	206 N. 10th St., Portland, Or.
Luse, H. H.	515 Albina Ave.
Mahar, J.	311 Flanders, Portland, Or.
Mann, J. P.	1261 Milwaukee Ave., Portland, Or.
Marshall, J.	554 Everett
Marshall, W. H.	343 Holliday Ave.
Mathers, J.	213½ Fourth St.
May, C.	372 First St., North Portland, Or.
Minor, Jas.	Sylvan, Or.
Morrissey	Market St. Power House, S. F., Cal.
Moran, Thos.	591 East Ash
Moody, R. H.	Kalama, Wash.
Multhauf, Jacob	447 Fourth St.
Murphy, R.	224 Marquam Bldg., Portland, Or.
McCarthy, M.	488 Couch
McClure, E. D.	580 East Morrison St.
McCully, A.	Buteville, Or.
McFeeley, E.	41 North 5th St.
McGregor, Jas.	224 Marquam Bldg., Portland, Or.
Norwood, J. W.	100 East 11th St.

24 INDEX REFERENCED LIST 3012

NAME	ADDRESS
Thayer, Wm.	Taylor St. Over Portland, Or.
Thompson, J.	334 Maryman Bldg.
Thompson, Wm.	334 Maryman Bldg. Portland, Or.
Thompson, Thos.	Asst. Sec. Portland, Or.
Thompson, W. H.	350 Washington St. Portland, Or.
Thompson, A. F.	Asst. Sec. Portland, Or.
Thompson, F. A.	224 Wacker St. Portland, Or.
Thompson, Isaac.	Rogers River, Or.
Thompson, F. F.	334 Maryman Bldg. Portland, Or.
Thompson, H.	Bridge Bridge Portland, Or.
Thayer, S. H.	475 Lambee St.
Smith, R. F.	Tacoma, Wash.
Smith, J. C.	Lewiston, Idaho
Shoen, John.	Archer Lodge, Portland, Or.
Smock, D. E.	21 East 3rd St., Portland, Or.
Thayer, G. H.	Bremerton, Wash.
Thayer, W. D.	127 East 14th St., Portland, Or.
Tackabery, T.	368 5th St., Portland, Or.
Turpin, R.	69 Union Ave. North
Vickers, E.	49 North 9th St.
Vaughn, A.	134 East 33rd St.
Wiggenton, J. E.	386 E. Lincoln St.
Walker, A.	St. Charles Hotel
Welch, Mat.	163 16th and Irving

M. E. B. A. No. 70, Astoria, Ore.

Cabbage, E. L.....	Astoria
Cahill, F. W.....	Yaquina, Ore.
Cann, F. Mc.....	Astoria
Carlson, John	Astoria
Conley, Harry.....	Anacortes, Wash.
Coulter, J. S.....	South Bend, Wash.
Drennon, William.....	San Francisco
Evans, H. T.....	Portland
Ferchen, H. E.....	Vancouver, B. C.
Fox, Fred	San Francisco
Goodell, F. H.....	Astoria
Goodell, George.....	Astoria
Haaven, Ira A.....	Astoria
Hall, William.....	Astoria
Hare, James W.....	Astoria
Hobson, C. F.....	Astoria
Kenneday, Michael.....	Astoria
King, William.....	Hoquiam
Mahon, W. J.....	Astoria
Monroe, Joseph.....	Astoria
Morris, Thomas.....	Astoria
Munson, F. S.....	Astoria
Newhall, F. W.....	Astoria
Overton, D. W.....	Astoria
Randles, Harry	Seattle
Rogers, C. A.....	San Francisco
Sale, C. J. B.....	South Bend, Wash.
Scott, James.....	San Francisco
Shatto, L. L.....	Astoria
Shatto, E. L.....	Astoria
Smith, C. T.....	Astoria
Topel, H. H.....	Portland
Turpin, Dick.....	Portland
Yocum, Mose.....	Portland
Yount, Robert.....	Portland

C. W. GRIGGS, Pres. H. A. STRONG, V.-Pres. L. HOWARTH, 2D V.-Pres.
GEO. BROWNE, Sec'y. H. S. GRIGGS, Treas.

Puget Sound Dry Dock and Machine Company

SHIPWRIGHTS, FOUNDERS AND MACHINISTS

1701 Dock Street, Tacoma, Wash., U. S. A.

DRY DOCK

Length,	. . . . .	325 feet
Breadth,	. . . . .	100 feet
Breadth Between Walls,	. . . . .	80 feet
Displacement,	. . . . .	8000 tons

**Equipped with Patent Adjustable Keel Blocks
and Latest Pneumatic Tools**

NO DETENTION ON ACCOUNT OF TIDES

Cable Address: "Achilles." Watkins and W. U. Codes

E. C. WARNER, Manager
GEO. A. BROWNE, Asst. Manager

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			L ^{ft}	B ^{ft}	D ^{ft}	
A. B. Johnson, Sch...	107,553	1	529.00	460.00	1900	Aberdeen, Wash...	165.3	37.0	11.8	H. Wilson, San Francisco, Cal.
A. C. Freese, Str...	106,411	1	205.74	175.31	1886	San Francisco, Cal.	173.0	27.5	4.5	S. Nowell, Sec. San Francisco, Cal.
A. F. Coats, Sch...	107,702	1	617.00	541.00	1901	Honolulu, Wash...	173.0	37.9	13.5	Fidalgo Is. Packing Co., Port Townsend, Cal.
A. G. Ketchum, Sch...	107,363	1	69.00	69.00	1898	Tacoma, Wash...	65.9	18.4	7.0	Stagun, Alaska.
A. J. Fuller, Ship...	1,848.00	1	1,673.00	1,673.00	1881	Bath, Me...	229.3	41.5	17.8	W. E. Michell, San Francisco, Cal.
A. J. West, Sch...	107,368	1	543.71	483.00	1898	Aberdeen, Wash...	161.0	40.0	11.6	S. E. Slade, San Francisco, Cal.
A. M. Baxter, Sch...	107,890	1	516.02	459.61	1898	Fairhaven, Cal...	162.7	37.0	12.4	A. Meyer, San Francisco, Cal.
A. R. Robinson, Str...	106,805	1	62.18	43.56	1890	Brooklyn, Wash...	44.5	17.4	6.9	G. M. Savage, Seattle, Wash.
Abble, Sch...	105,812	1	146.17	138.87	1876	Eureka, Cal...	98.5	29.5	8.3	Canner Lumber Co., San Francisco, Cal.
Abble, F. Morris, Sch...	106,242	1	81.00	77.00	1884	Essex, Mass...	79.4	22.3	8.2	A. L. Whitney, San Francisco, Cal.
Abbie Palmer, Sch...	106,152	1	101.31	96.25	1883	Kennebunk, Me...	90.5	23.5	8.7	A. L. Whitney, San Francisco, Cal.
Abby Perkins, Bark...	107,429	1	1,943.00	1,705.00	1893	Dumbarton, Scotl'd	264.0	39.0	23.5	A. L. Whitney, San Francisco, Cal.
Aberdeen, Str...	106,794	1	14.00	8.00	1890	Seattle, Wash...	32.0	12.1	3.9	Seattle, Wash.
Aberdeen, Str...	106,544	1	98.07	84.18	1888	Aberdeen, Wash...	77.7	16.4	3.3	A. P. Stockwell, Pt. Townsend, Wash.
Aberdeen, Str...	106,188	1	562.28	457.06	1899	Aberdeen, Wash...	169.8	34.2	13.6	Geo. S. Beadle, San Francisco, Cal.
Acme, Str...	107,460	1	31.00	21.00	1899	Seattle, Wash...	60.0	11.5	3.0	H. E. Tompkins, Seattle, Wash.
Acme, Str...	106,630	1	294.66	275.94	1889	San Fran., Cal...	177.5	37.0	5.2	E. Wright, San Francisco, Cal.
Active, Sch...	107,322	1	416.00	269.00	1901	Alameda, Cal...	154.0	34.0	13.5	W. Beadle, San Francisco, Cal.
Active, Sch...	106,338	1	7.74	7.36	1884	Pt. Ludlow, Wash...	33.3	19.7	3.2	W. G. Morrissey, Orem, Alaska.
Active, Sch...	107,003	1	12.62	12.62	1892	Astoria, Or...	72.2	12.0	4.2	G. H. George, Astoria, Or.
Active, Str...	107,413	1	57.00	24.00	1899	Seattle, Wash...	73.8	18.1	7.5	Seattle Turf Co., Seattle, Wash.
Ada, Str...	107,444	1	64.01	45.13	1878	Eureka, Cal...	72.0	18.0	3.5	Eureka & Klamath R. R. Co., Eureka, Cal.
Ada, McCune, Sch...	107,005	1	24.65	22.92	1887	San Francisco, Cal.	52.4	20.1	4.6	J. E. Sullivan, San Francisco, Cal.
Addenda, Blin...	107,188	1	692.48	637.42	1895	North Bend, Or...	176.3	39.8	14.0	A. M. Simpson, San Francisco, Cal.
Addie Gravel, Sch...	107,352	1	23.64	22.41	1898	San Francisco, Cal.	47.5	19.2	3.8	J. Sweetman, San Francisco, Cal.
Adelai, Sch...	106,401	1	14.80	7.50	1896	Tacoma, Wash...	45.5	9.4	9.4	St. Paul Mining Co., Tacoma, Wash.
Adella Grinn, Sch...	106,192	1	31.05	29.50	1886	San Francisco, Cal.	55.5	17.5	4.5	James Peterson, San Francisco, Cal.
Admiral, Sch...	106,925	1	27.43	26.01	1883	San Francisco, Cal.	32.7	19.5	3.8	D. B. Jennings, San Francisco, Cal.
Admiral, Sch...	107,561	1	683.00	605.00	1888	San Francisco, Cal.	51.5	20.0	5.0	F. C. Morgan, San Francisco, Cal.
Admiral Dewey, Sch...	107,388	1	6.00	14.00	1898	North Bend, Or...	173.6	36.2	14.0	Pacific Coast Ship Co., San Francisco, Cal.
Advance, Str...	107,469	1	43.00	33.00	1899	Ballard, Wash...	46.0	12.0	6.0	J. Abrahamson, Seattle, Wash.
Adventure, Sch...	107,866	1	431.00	399.00	1901	Paulsbo, Wash...	69.0	16.8	6.1	L. B. Moe, Seattle, Wash.
Actua, Sch...	106,359	1	33.00	29.00	1890	North Bend, Or...	37.4	12.3	2.5	Coos Bay, Or.
Actua, Sch...	106,862	1	22.17	12.07	1885	Seattle, Wash...	44.5	18.7	4.2	J. Hawkins, Juneau, Alaska.
Actua, Sch...	106,822	1	22.17	12.07	1885	San Francisco, Cal.	44.5	18.7	4.2	J. Hawkins, San Francisco, Cal.
Algonak, 2 Str...	106,628	1	44.83	35.73	1897	San Francisco, Cal.	72.0	16.4	8.0	C. Klengenbore, San Francisco, Cal.
Aggie, Bark...	1,435	1	65.73	37.69	1889	San Francisco, Cal.	77.0	20.0	8.0	Alaska Packers Ass'n, San Francisco, Cal.
Aggie, Sch...	106,131	1	626.00	595.00	1898	Newburyport, Mass.	145.1	31.3	13.5	Bristol Packing Co., San Francisco, Cal.
Agna, Sch...	106,112	1	52.31	49.70	1880	Pt. Ludlow, Wash...	70.3	23.3	6.0	E. A. Wiltsee, San Francisco, Cal.
Agnes, Sch...	106,413	1	22.00	22.00	1901	Seattle, Wash...	40.0	14.0	4.9	E. Stevensen, Seattle, Wash.
Agnes, Sch...	106,413	1	44.44	42.22	1886	San Francisco, Cal.	62.4	22.8	4.9	A. Wilson, San Francisco, Cal.
Agnes E. Boyd, Str...	107,351	1	31.62	23.05	1898	Oakland, Cal...	55.0	17.0	4.6	W. A. Hayne, Jr., San Francisco, Cal.

Seattle Machine Works

ENGINEERS AND MACHINISTS



BOILER TEST PUMPS

General Marine Repair Work a Specialty

Our shop is equipped with new modern tools
and we employ the best of mechanics

Shop Cor. Railroad Ave. and King St., near Stetson & Post Mill

Shop Phone, Main 1068. Superintendent's Residence Phone, Black 9063

For Engineers' Supplies, including Oils, Packing, Pipe and Fittings, see

MITCHELL, LEWIS & STAYER CO.

Phone, Private Exchange 31

308-310 FIRST AVE. SOUTH, SEATTLE

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Length	Breadth	Depth	
Agnes Jones, Sch....	105,682	1	24.23	23.03	1877	San Francisco, Cal.	48.5	19.2	4.0	Robert Jones, San Francisco, Cal.
Alex. Barge.....	30,162	1	226.00	208.00	1899	Seattle, Wash....	111.7	30.9	7.2	Drummond Litherage Co., Seattle, Wash.
Alameda, Sch.....	1,173	1	35.53	33.76	1861	San Francisco, Cal.	65.0	19.2	4.0	G. W. Hendy, San Francisco, Cal.
Alameda, Str.....	1,216	1	813.14	621.85	1866	San Francisco, Cal.	193.0	33.8	11.3	W. M. Thompson, Sec'y, San Francisco, Cal.
Alameda, 3 Str.....	106,184	3	3,158.23	1,939.10	1883	Philadelphia, Pa....	314.0	44.0	17.3	Oceanic S. S. Co., San Francisco, Cal.
Alarm, Str.....	106,490	1	27.10	16.08	1887	Portland, Or.....	69.8	13.0	5.0	S. Elmore, Astoria, Or.
Alaska, Str.....	107,458	1	60.00	19.00	1899	Seattle, Wash....	73.7	18.9	7.2	Empire Trans. Co., Seattle, Wash.
Alaska, Str.....	106,538	1	46.00	23.00	1888	San Francisco, Cal.	55.5	19.0	7.0	S. S. Wrangel, Alaska.
Alaskan, Str.....	19,866	1	138.00	75.00	1886	Oenatha, Or.....	30.5	8.9	2.5	S. Alaskan Co., Seattle, Wash.
Alaska Rover, Str....	107,341	1	13.00	5.00	1898	N. Whatcom, Wash.	80.0	18.7	7.4	L. W. Gundlach, Port Townsend, Wash.
Albacore, Str.....	107,527	1	14.00	10.00	1900	San Diego, Cal....	30.5	8.9	2.5	R. Howard, San Diego, Cal.
Albany, Str.....	107,218	1	431.83	401.29	1896	Portland, Or.....	150.7	32.0	4.5	E. Stone, Corvallis, Or.
Albatross, Sch.....	107,289	1	7.45	7.45	1897	Portland, Or.....	150.7	32.0	4.5	E. Stone, Corvallis, Or.
Albert, Bark.....	106,756	1	682.56	648.44	1890	Lummi Is., Wash..	182.7	38.3	14.6	H. A. Stephens, Port Townsend, Wash.
Albert, Sch.....	107,309	1	9.23	9.23	1897	Pt. Blakely, Wash..	39.5	9.3	4.0	S. S. Bailey, Seattle, Wash.
Albertine, Sch.....	50,74	1	48.21	48.21	1884	Seattle, Wash....	63.5	23.8	5.5	J. Erickson, San Francisco, Cal.
Albert Lea, Str.....	106,609	1	16.67	11.34	1888	San Francisco, Cal.	42.8	8.8	4.9	E. N. Marble, Port Townsend, Wash.
Albert Meyer, Sch....	107,226	1	459.01	398.19	1896	Gig Harbor, Wash..	156.0	36.0	11.9	A. Meyer, San Francisco, Cal.
Albion, Sch.....	106,438	1	79.57	75.60	1886	Fairhaven, Wash..	156.0	36.0	11.9	E. N. Marble, Port Townsend, Wash.
Albion, 2 str.....	106,967	1	216.02	164.57	1892	San Francisco, Cal.	80.5	27.0	5.0	Mrs. R. Sparks, San Francisco, Cal.
Albion, Str.....	107,443	1	149.00	97.00	1899	Alameda, Cal.....	120.0	31.0	9.9	J. S. Kimball, Pres't., San Francisco, Cal.
Alcalde, 3 Sch.....	106,087	1	321.14	282.52	1882	Coupeville, Wash..	94.2	19.6	4.9	Island Steamship Co., Port Townsend, Wash.
Alcatraz, Str.....	106,484	1	255.00	193.00	1887	Pt. Blakely, Wash..	133.8	34.0	9.8	A. Anderson, San Francisco, Cal.
Alcatraz, Str.....	106,470	1	263.00	202.00	1887	San Francisco, Cal.	130.2	31.0	10.8	L. E. White Lumber Co., San Francisco, Cal.
Alceda, Sch.....	107,030	1	19.65	15.16	1893	San Francisco, Cal.	132.0	31.5	10.3	L. E. White Lumber Co., San Francisco, Cal.
Alden Besse, Bark....	1,991	2	842.10	812.55	1871	Seattle, Wash....	50.0	16.0	5.4	S. Calder, Seattle, Wash.
Alecto, Sloop.....	107,137	1	8.92	8.48	1895	Bath, Me.....	164.5	35.7	20.3	J. D. Sprackles, San Francisco, Cal.
Alert, Str.....	106,337	1	75.36	37.68	1884	Pausbo, Wash....	34.7	12.3	4.5	John Thompson, Seattle, Wash.
Alert, Sch.....	107,479	1	8.00	8.00	1899	Benicia, Cal.....	86.2	20.0	9.5	J. D. Sprackles, San Francisco, Cal.
Alert, Sloop.....	106,812	1	11.00	11.00	1899	Friday, Har., Wash.	32.9	11.5	2.8	A. F. Ackley, Port Townsend, Wash.
Alert, Str.....	107,048	1	7.00	7.00	1888	Tumoca, Wash....	32.0	10.7	4.6	F. Buttick, Seattle, Wash.
Alert, Str.....	106,768	1	24.00	11.00	1893	Astoria, Or.....	31.8	10.7	4.0	..... Astoria, Or.
Alert, Str.....	106,814	1	96.00	58.00	1890	Pt. Blakely, Wash..	56.5	11.2	4.4	..... Astoria, Or.
Alex, Sch.....	106,814	1	10.00	10.00	1891	Bandon, Or.....	69.3	14.2	4.1	..... Coce Bay.
Alexander, Str.....	1,739	1	294.00	159.00	1855	Benicia, Cal.....	59.5	19.0	7.0	Alaska Packers' Ass'n, San Francisco, Cal.
Alexander, Sch.....	105,673	1	52.12	44.52	1877	Astoria, Or.....	39.0	12.7	4.1	G. H. George, Astoria, Or.
Alex'r McVell, Bark..	1,822	2	1,122.86	1,048.88	1869	New York.....	158.0	26.0	13.0	W. Johnson, San Francisco, Cal.
Alexandra, Sch.....	107,504	1	38.64	23.54	1890	San Francisco, Cal.	66.0	17.5	6.5	Jas. Brown, San Francisco, Cal.
Alex Duncan, 2 Str....	105,505	2	6.74	6.41	1890	Waldoboro, Me....	177.4	36.3	26.4	A. Paladini, San Francisco, Cal.
Alex. Gibson, Ship....	105,741	3	371.53	260.03	1875	San Francisco, Cal.	143.5	25.3	12.8	C. H. Hanson, Seattle, Wash.
Alfonso XIII, Naptha..	107,317	1	2,194.38	2,043.55	1877	Pt. Hadlock, Wash.	33.4	9.9	3.8	C. H. Hanson, Seattle, Wash.
		1	11.97	5.87	1897	Thomaston, Me....	247.3	42.6	21.9	C. Goodall, San Francisco, Cal.
		1	11.97	5.87	1897	San Francisco, Cal.	38.4	11.5	5.2	Pacific Packing & Nav. Co., San Francisco, Cal.

THOMAS S. BURLEY, MANAGER
TELEPHONE JOHN 861

ROBERT MCCULLOUGH, SECRETARY
TELEPHONE JOHN 851

TACOMA **Tug and Barge Co.**



THE FIRE TUG "FEARLESS."

TUGS { **FEARLESS**
 { **FAIRFIELD**
 { **FAVORITE** } **GENERAL TOWING, JOBBING**

Watering Ships and Ballast Furnished

SCOWS AND BARGES FOR RENT

ESTIMATES FURNISHED. SHIP'S MAIL PROMPTLY DELIVERED

CORRESPONDENCE SOLICITED

REFERENCES—London & San Francisco Bank, Dodwell & Co., St. Paul & Tacoma
Lumber Co., Tacoma Mill Co., and all shippers in the city.

Office: Pacific Cold Storage Building, Northern Pacific Dock,

Telephone, Main 59.

TACOMA, WASH.

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Length	Breadth	Depth	
Alfred Dufour, Barge.	30,146	1	61.00	61.00	1898	St. Michael, Aka.	61.6	16.2	6.0	W. Bradford, Tacoma, Alaska.
Alice, Sch.	107,327	1	86.54	55.97	1897	Tacoma, Wash.	115.0	31.3	10.4	W. M. Cathoun, Seattle, Wash.
Alice, Sch.	105,396	1	232.14	190.55	1874	Beans Pt., Wash.	69.0	18.2	7.8	Pac. Packing & Nav. Co., San Francisco, Cal.
Alice, Str.	106,978	1	39.14	19.57	1892	Alameda, Cal.	32.0	8.0	3.0	Jas. McKenna, Eureka, Cal.
Alice, Str.	106,632	1	10.17	8.17	1885	Eureka, Or.	44.0	13.4	3.9	W. T. Chutter, Astoria, Or.
Alice, Sch.	107,149	1	12.67	12.67	1895	Astoria, Or.	29.1	10.6	3.6	A. Fillmore, Kodiak, Alaska.
Alice, Sch.	107,161	1	7.49	6.36	1895	Aquarium, Wash.	160.0	33.0	8.0	Sitka, Alaska.
Alice, Sch.	107,253	1	400.00	200.00	1888	St. Michael, Aka.	34.5	13.3	4.9	Kodiak, Alaska.
Alice, Sch.	106,576	1	13.00	13.00	1885	Seattle, Wash.	42.0	7.8	3.4	E. Chlopect, Seattle, Wash.
Alice A, Str.	107,203	1	6.30	5.27	1895	Portland, Or.	185.6	39.0	15.4	Alice Cooke Co., San Francisco, Cal.
Alice Cook, Sch.	782,553	1	722.14	1891	Pt. Blakeley, Wash.	130.6	25.7	9.6	Puget Sound Nav. Co., Seattle, Wash.	
Alice Gertrude, Str.	413,17	1	271.52	1898	Seattle, Wash.	89.1	127.0	7.2	W. A. Johnston, San Francisco, Cal.	
Alice Kimball, Sch.	107,346	1	107.36	102.01	1874	Little River, Cal.	45.3	12.5	4.4	D. E. Wallace, Port Townsend, Wash.
Alice M, Sch.	105,359	1	14.54	13.82	1892	Pt. Angeles, Wash.	107.0	23.0	10.0	Alaska Packers' Ass'n, San Francisco, Cal.
Alitak, Str.	106,992	1	115.00	73.00	1901	Alameda, Cal.	200.0	38.2	23.25	Pacific Coast S. S. Co., San Francisco, Cal.
Alitak, Str.	107,636	1	1,259.46	888.33	1884	Bath, Me.	72.7	17.4	4.3	J. Durgin, Seattle, Wash.
Alitak, Str.	106,260	2	78.83	48.69	1889	Seattle, Wash.	145.0	35.0	9.4	The Chas. Nelson Co., San Francisco, Cal.
Alitak, Str.	106,521	1	342.74	266.56	1885	Fairhaven, Wash.	29.9	7.9	3.6	T. Thorsen, Seattle, Wash.
Alitak, Str.	106,521	1	6.06	5.76	1895	Georgetown, Wash.	164.4	35.6	12.0	G. D. Gray, San Francisco, Cal.
Alitak, Str.	107,152	1	679.69	431.00	1896	Fairhaven, Cal.	42.0	15.0	2.6	F. C. Lauritzen, San Francisco, Cal.
Alitak, Str.	107,247	1	11.00	10.00	1901	Rio Vista, Cal.	41.3	8.2	3.0	Jas. Peterson, Coos Bay, Or.
Alitak, Str.	107,657	1	13.00	6.00	1899	Marshall, Or.	59.0	22.6	4.0	B. Olsen, Seattle, Wash.
Alitak, Str.	107,507	1	41.78	39.69	1891	San Francisco, Cal.	36.0	17.7	5.4	E. R. Diamond, San Francisco, Cal.
Alitak, Str.	106,837	1	13.00	13.00	1898	Seattle, Wash.	190.4	40.2	15.3	J. S. Kimball Co., San Francisco, Cal.
Alitak, Sch.	106,907	1	814.74	742.94	1891	Pt. Blak'ly, Wash.	126.5	30.5	10.0	A. Meyer, Seattle, Wash.
Alitak, Sch.	107,385	1	294.87	216.23	1898	Alameda, Cal.	30.0	7.7	3.9	G. M. Frye, Seattle, Wash.
Alitak, Sch.	107,385	1	970.00	833.00	1901	Pt. Blak'ly, Wash.	38.0	9.0	2.5	A. Marcusen, Port Townsend, Wash.
Alitak, Sch.	107,687	1	10.34	7.02	1897	Seattle, Wash.	82.0	26.0	6.1	A. L. Piner, San Francisco, Cal.
Alitak, Str.	107,288	1	15.04	7.00	1898	St. Michael, Aka.	408.6	126.6	3.7	V. Bruschi, San Diego, Cal.
Alitak, Str.	107,404	1	36.00	16.00	1901	Richardson, Wash.	88.6	17.9	7.2	Korbel Bros., Eureka, Cal.
Alitak, Str.	106,658	1	95.96	91.17	1892	Benicia, Cal.	37.0	10.5	3.9	Pac. Packing & Nav. Co., San Francisco, Cal.
Alitak, Sch.	106,944	1	8.59	8.17	1884	Roseville, Cal.	46.5	12.3	5.5	M. Sherwood, San Francisco, Cal.
Alitak, Sch.	105,880	2	96.11	58.85	1878	Fairhaven, Wash.	72.2	21.2	8.0	R. Olsen, San Francisco, Cal.
Alitak, Str.	106,830	1	11.45	5.81	1890	Eagle Har., Wash.	100.0	21.5	4.0	J. Gillis, San Francisco, Cal.
Alitak, Str.	107,145	1	14.98	10.19	1895	San Francisco, Cal.	123.4	29.7	4.8	Oregon City Transp. Co., Portland, Or.
Alitak, Sch.	107,214	1	66.52	56.07	1896	Pt. Town'd, Wash.	189.1	40.0	15.6	Jos. Knowland, San Francisco, Cal.
Alitak, Str.	107,584	1	108.19	93.58	1900	Stockton, Cal.	184.4	39.7	14.3	J. R. Rideout, San Francisco, Cal.
Alitak, Str.	107,453	1	329.00	242.00	1899	Portland, Or.	144.0	33.6	6.0	Mrs. A. J. Rideout, San Francisco, Cal.
Alitak, Str.	107,630	1	696.00	644.00	1901	North Bend, Or.	115.0	23.0	6.0	
Alitak, Str.	107,620	1	772.00	687.00	1901	Fairhaven, Wash.				
Alitak, Str.	106,687	1	469.69	443.58	1889	San Francisco, Cal.				
Alitak, Str.	107,153	1	197.50	168.93	1895	Sausalito, Cal.				

Hallidie-Henshaw-Bulkley Co.

ENGINEERS

Machinery Merchants

Steam Power Plants for all purposes.
Machine Tools.
Woodworking Machinery.
Blowers, Exhaust and Ventilating Fans.
Saw Mill Machinery.
Mining Machinery.

We carry the largest stock in the Northwest.
Write for CATALOGUES and any information.

315 SECOND AVENUE SOUTH,
SEATTLE, WASH.

OFFICE TELEPHONE

Main 445

RESIDENCE TELEPHONE

Black 3656

Telegraph Codes

"ENGINEERING" "POSTAL"

E. L. McALLASTER

Mechanical Engineer and Naval Architect

ESTIMATES, PLANS AND SPECIFI-
CATIONS FURNISHED FOR VESSELS
OR MACHINERY

Superintendence of Construction and Erection

Expert Examinations and Tests

Office, 503-504 Pioneer Building,

SEATTLE, WASH.

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net						
Amador, Str.....	1,953	1	985.57	756.94	1869	San Francisco, Cal.	199.0	39.0	10.6	Central Pacific R. R. Co., San Francisco, Cal.
Amalie, Str.....	1,066,610	1	8.47	5.15	1888	San Francisco, Cal.	37.0	11.0	4.5	H. Merx, San Francisco, Cal.
Amaranth, Bktn.....	107,681	1	1,109.09	1,062.78	1901	Benicia, Cal.	209.0	42.5	18.0	N. Andrews, San Francisco, Cal.
Amelia, Sch.....	105,685	1	24.53	23.21	1877	Vallejo, Cal.	153.0	20.0	4.1	Mrs. M. N. Hansen, San Francisco, Cal.
Amelia, Bktn.....	1,974	1	397.23	378.07	1870	Coos Bay, Ore.	153.0	37.0	10.0	J. A. Campbell, Port Townsend, Wash.
America, Ship.....	105,439	2	2,054.23	1,908.93	1874	Quincy, Mass.	232.8	43.1	19.2	P. A. Peck, New York, N. Y.
America, Sch.....	106,571	1	78.67	74.74	1883	Benicia, Cal.	81.0	24.0	6.7	F. W. Jordan, San Francisco, Cal.
America, Str.....	107,437	1	99.00	67.00	1889	Portland, Ore.	93.9	20.0	6.2	J. A. Good, Portland, Ore.
American, 4 Sch.....	107,545	1	959.00	839.47	1892	Grangemth, Scot.	204.6	41.2	15.7	Pacific Shipping Co., San Francisco, Cal.
American Flag, Scow.....	30,134	1	20.00	20.00	1898	Pt. Angeles, Wash.	46.0	13.0	4.5	Pacific Sound Packing Co., Pt. Angeles, Wash.
Amer. Ranger, Sch.....	106,495	1	22.79	21.66	1887	Dewatto, Wash.	38.0	13.6	5.7	H. Haller, Port Townsend, Wash.
Amethyst, Sch.....	106,191	1	74.25	70.56	1883	Benicia, Cal.	72.5	26.0	5.7	H. L. Jarvis, San Francisco, Cal.
Amy, Sch.....	107,358	1	9.72	8.44	1898	San Diego, Cal.	32.7	10.3	4.4	G. E. Hunt, San Diego, Cal.
Amy, Turn, Bark.....	105,674	2	891.32	900.04	1877	Boston, Mass.	174.0	35.4	21.6	J. Greig, San Francisco, Cal.
Anaconda, Sch.....	106,829	1	42.19	40.09	1891	Seattle, Wash.	54.0	16.8	9.1	A. Lawson, Seattle, Wash.
Anastasia, Sch.....	1,880	1	37.32	35.48	1870	San Francisco, Cal.	57.5	22.2	4.3	E. Abranson, San Francisco, Cal.
Anawanda, Str.....	107,421	1	31.00	15.00	1898	St. Michael, Aka.	46.0	12.0	3.5	J. A. Magee, Jr., St. Michaels, Alaska.
Andrew Hicks, Bark.....	1,379	2	303.12	287.96	1867	Fairhaven, Mass.	111.3	27.1	15.7	J. Olsen, San Francisco, Cal.
Andrew Jackson, Sch.....	1,182	2	36.62	34.79	1860	San Francisco, Cal.	56.0	20.8	4.75	J. Greig, San Francisco, Cal.
Andrew Welch, Bark.....	107,546	1	903.76	863.93	1888	Glasgow, Scot.	178.5	36.0	18.5	J. Olsen, San Francisco, Cal.
Aneta V, Sch.....	107,169	1	11.64	8.31	1895	Napa, Cal.	36.0	14.0	3.5	B. H. King, San Francisco, Cal.
Angeles, Str.....	106,639	1	62.41	44.25	1889	Pt. Angeles, Wash.	58.5	17.0	8.3	L. Alsop, Port Townsend, Wash.
Anglo-Saxon, Str.....	107,556	1	14.00	9.00	1900	N. Whatcom, Wn.	46.0	11.0	4.1	J. V. Cook, Portland, Ore.
Anita, Sch.....	107,138	1	88.11	83.71	1894	Benicia, Cal.	82.0	24.0	6.2	A. L. Piper, San Francisco, Cal.
Anna Aden, Sch.....	1,206	1	35.10	33.36	1875	Vallejo, Cal.	54.0	21.0	4.3	John Carter, San Francisco, Cal.
Annie, Sloop.....	1,055,518	1	12.20	11.60	1871	San Francisco, Cal.	34.0	12.5	4.55	C. Fitchworth, San Francisco, Cal.
Annie, Str.....	106,483	1	20.18	10.9	1887	Eureka, Cal.	51.5	13.3	5.0	J. C. Bull, Jr., Eureka, Cal.
Annie, Str.....	106,175	1	83.47	49.06	1883	Eureka, Cal.	76.6	18.2	4.0	P. Johnson, Seattle, Wash.
Annie, Sch.....	106,706	1	14.92	14.92	1890	Seattle, Wash.	32.3	13.0	4.9	....., San Francisco, Cal.
Annie, Sch.....	105,684	1	41.00	39.00	1877	San Francisco, Cal.	57.0	22.2	4.5	....., Portland, Ore.
Annie, Str.....	106,295	1	13.00	6.00	1884	Astoria, Or.	40.0	12.5	4.0	L. Farrell, Portland, Ore.
Annie, Str.....	107,560	1	13.00	9.00	1896	Portland, Ore.	43.3	10.5	4.1	J. Erickson, San Francisco, Cal.
Annie E, 2 Sch.....	106,868	1	68.93	18.91	1896	Alameda, Cal.	71.0	25.6	5.9	E. Nelson, Ast., San Francisco, Cal.
Annie E Mine, Sch.....	106,663	1	16.57	15.75	1876	San Francisco, Cal.	39.0	17.0	3.4	J. Olson, San Francisco, Cal.
Annie Eliza, Sch.....	106,296	1	30.00	28.50	1884	San Francisco, Cal.	54.8	20.0	3.8	M. Thompson, Seattle, Wash.
Annie Jane, Str.....	107,240	1	16.63	11.31	1896	Seattle, Wash.	44.0	13.8	4.1	Matson Navigation Co., San Francisco, Cal.
Annie Johnson, Bark.....	105,916	1	1,049.24	976.98	1892	Herrington, Eng.	212.1	34.1	21.6	E. Munder, San Francisco, Cal.
Annie L, Sch.....	106,026	2	60.69	53.65	1900	San Francisco, Cal.	65.0	25.0	5.0	James Tuft, San Francisco, Cal.
Annie Larson, Tern.....	106,816	1	376.54	357.78	1881	Pt. Blakly, Wash.	142.8	34.6	11.0	J. Olsen, San Francisco, Cal.
Annie Maria, 2 Sch.....	107,064	1	33.88	32.19	1891	Pt. Blakly, Wash.	57.0	20.3	4.0	C. Earganell, Seattle, Wash.
Annie M, Sch.....	107,064	1	12.57	11.94	1897	S. Park, Wash.	31.8	11.1	4.5	H. Earganell, Seattle, Wash.
A. M. Campbell, Sch.....	107,307	1	565.25	485.16	1897	Pt. Blakly, Wash.	168.4	37.6	12.8	C. Earganell, Seattle, Wash.
Annie M. Nixon, Str.....	107,080	1	42.00	18.00	1894	Tacoma, Wash.	59.6	17.0	6.3	Pac. Packing & Nav. Co., Seattle, Wash.

Telephone Main 588 or Union 24.



ROSLYN & QUEEN COALS

Room C Bailey Building

Foot of 2nd Avenue South.

BUNKERS

Foot of Clay Street.

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG			Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
					Gross	Net			L'th	B'th	Depth	
Antelope, Str.	106,440	1	29.00	19.00	1886	Marshfield, Or.	60.3	11.2	4.6	S. Elmore, Astoria, Or.	Coos Bay, Or.	
Antelope, Sch.	106,487	1	123.98	117.79	1887	Benicia, Cal.	89.5	28.5	7.0	Eureka & Klamath R. R. Co.	Eureka, Cal.	
Antelope, Str.	106,573	2	155.39	82.57	1888	Eureka, Cal.	95.0	21.0	5.5	Wrangel, Alaska.	Wrangel, Alaska.	
Antelope, Str.	107,637	1	10.00	6.00	1901	Wrangel, Alaska	42.5	11.6	5.5	W. M. Thompson, Sec'y.	San Francisco, Cal.	
Apache, Str.	105,923	1	938.89	785.02	1880	Oakland, Cal.	176.4	42.2	8.0	F. A. Perry, San Francisco.	San Francisco, Cal.	
Arago, 4 Ektn.	106,869	1	498.74	476.00	1891	North Bend, Or.	176.4	38.8	12.2	L. E. Noonan, San Francisco.	San Francisco, Cal.	
Arago, Sch.	1,165	2	185.76	176.50	1860	Coos Bay, Or.	103.0	28.0	9.0	L. E. Noonan, San Francisco.	San Francisco, Cal.	
Arca, Str.	107,496	1	8.00	6.00	1898	Boston, Mass.	40.5	10.0	4.5	W. H. Fisher, Sec'y.	San Francisco, Cal.	
Arca, 3 Str.	580.21	1	415.56	1876	San Francisco, Cal.	180.9	26.2	8.6	J. Greig, San Francisco.	San Francisco, Cal.		
Archer, Bktn.	107,139	1	900.00	845.00	1876	Sunderland, Eng.	185.2	21.6	11.1	H. A. Richardson, San Francisco.	San Francisco, Cal.	
Archie & Pontie, Sch.	107,742	1	64.48	61.28	1890	Benicia, Cal.	76.5	25.5	6.3	Alaska Packers' Ass'n.	San Francisco, Cal.	
Archie, 2 Str.	106,728	2	421.19	211.10	1890	Alameda, Cal.	61.6	19.0	7.0	H. A. Richardson, San Francisco.	San Francisco, Cal.	
Arctic, Str.	107,640	1	392.69	277.04	1901	Bay City, Or.	145.0	32.0	11.0	J. S. Kimball, San Francisco.	San Francisco, Cal.	
Arctic Bird, Str.	107,365	1	38.04	27.25	1898	Sausalito, Cal.	50.0	16.5	3.5	R. S. Kimball, San Francisco.	San Francisco, Cal.	
Arctic Boy, Str.	107,413	1	74.00	74.00	1898	St. Michael, Alaska	124.0	25.0	2.6	R. S. Kimball, San Francisco.	San Francisco, Cal.	
Arctic Wanderer, Sch.	107,338	1	9.00	6.00	1898	Seattle, Wash.	40.0	14.0	3.0	.....	Seattle, Wash.
Argo, Str.	107,403	1	336.00	209.00	1898	Portland, Wash.	117.5	20.8	9.6	C. A. Hume, San Francisco.	San Francisco, Cal.	
Argonaut, Str.	107,338	1	40.69	20.35	1881	Portland, Or.	76.0	17.0	7.7	J. Simon, Sec'y.	Portland, Or.	
Argonaut, Str.	107,403	1	15.00	7.00	1898	St. Michael, Alaska	50.0	10.0	3.5	J. Simon, Sec'y.	St. Michael, Alaska.	
Argyl, Str.	107,577	1	2,753.56	1,880.92	1892	W. Hartley, Eng.	320.3	40.7	24.5	J. Jerome, Sec'y.	San Francisco, Cal.	
Ariel, Sch.	107,588	1	726.00	684.00	1900	Benicia, Cal.	176.0	40.0	14.5	E. S. Maxwell, Seattle.	Seattle, Wash.	
Artilla, Sch.	107,454	1	107.00	88.00	1899	San Francisco, Cal.	91.0	22.9	9.4	C. E. Lake, Seattle.	Seattle, Wash.	
Arnold, Str.	107,353	1	632.40	631.20	1898	San Francisco, Cal.	181.0	36.5	6.7	C. E. Lake, Seattle.	Seattle, Wash.	
Arrow, Str.	107,670	1	73.00	41.00	1901	Ballard, Wash.	78.2	14.4	6.0	C. E. Lake, Seattle.	Seattle, Wash.	
Arthur, Sch.	105,384	1	48.38	45.99	1874	San Fran., Cal.	64.5	23.5	4.3	C. E. Lake, Seattle.	Seattle, Wash.	
Arthur G, Str.	107,619	1	8.00	5.00	1900	Fisher's Bay, Wn	34.5	9.5	3.0	A. L. Piper, San Francisco.	San Francisco, Cal.	
Astoria, 1 Str.	152.32	1	76.16	1884	North Bend, Or.	109.5	23.5	12.0	7.5	C. G. McCallie, Port Townsend.	Wash.	
Astorian, Str.	106,798	1	381.64	234.24	1890	North Bend, Or.	142.0	26.5	12.0	H. B. Holt, San Francisco.	San Francisco, Cal.	
Asuncion, Str.	107,598	1	2,196.00	1,328.00	1900	Portland, Or.	242.0	42.0	26.5	H. B. Parker, Astoria.	Or.	
Atlanta, Sch.	107,316	1	17.23	17.23	1897	Lorain, Ohio	40.3	13.6	5.8	International S. S. Co.	San Francisco, Cal.	
Atlanon, Str.	107,610	1	157.00	107.00	1900	Olympia, Wash.	40.3	13.6	5.8	R. E. Catton, Seattle.	Seattle, Wash.	
Athol, Str.	107,414	1	16.00	16.00	1898	Portland, Or.	112.4	19.7	7.0	H. B. Kennedy, Seattle.	Seattle, Wash.	
Athol, Str.	107,414	1	16.00	16.00	1898	Unalaska, Alaska	42.0	12.0	5.0	.....	St. Michael, Alaska.
Augusta, Str.	106,593	1	78.00	44.00	1888	Unalaska, Or	79.2	20.2	7.0	M. Earles, Port Townsend.	Wash.	
Aurora, Str.	106,369	1	406.00	328.00	1885	San Fran., Cal.	145.0	30.0	7.5	Cal. Transportation Co.	San Francisco, Cal.	
Aurora, Bktn.	107,707	1	1,211.00	1,070.00	1901	Everett, Wash.	221.3	42.7	17.7	R. J. Tyson & Co.	San Francisco, Cal.	
Aurora, F, Sch.	107,651	1	16.43	16.43	1897	Colby, Wash.	40.0	12.0	3.5	J. A. Newell, Port Townsend.	Wash.	
Australia, 4 Str.	107,265	3	2,755.25	1,937.89	1889	San Fran., Cal.	376.9	37.45	26.3	Oceanic S. S. Co.	San Francisco, Cal.	
Autocrat, Barge	29,816	1	948.19	948.19	1874	Portland, Or.	192.6	31.4	8.9	O. R. & N. Co.	Portland, Or.	
Autoclat, Sch.	107,489	1	9.00	7.00	1899	San Diego, Cal.	34.5	9.4	5.0	J. E. Mathewson, San Diego.	Cal.	
Avalon, Sch.	107,489	1	9.00	7.00	1899	San Diego, Cal.	34.5	9.4	5.0	J. E. Mathewson, San Diego.	Cal.	
Axel, Sch.	107,416	1	16.00	16.00	1898	Seattle, Wash.	39.5	11.4	6.3	J. G. Holmstrom, Seattle.	Wash.	
Azalea, Tern.	106,787	1	344.54	327.32	1890	Eureka, Cal.	150.0	35.0	11.0	J. Dolbeer, San Francisco.	Cal.	
Azalea, Sch.	105,563	1	41.00	.....	1875	San Fran., Cal.	61.5	20.0	5.8	M. R. Roberts, Jr.	San Francisco, Cal.
Aztec, Str.	107,639	1	22.00	22.00	1901	Needles, Cal.	70.0	12.5	2.8	W. Lamar, Needles.	Cal.	

Third and Columbia

Telephone Main 13

Bonney & Stewart

Funeral Directors and Embalmers

Lady Assistant
Always in Attendance

Seattle, Wash.

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dk's	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			L'th	B'r'th	Depth	
Aztec, Str.....	107,547	2	3,508.43	2,298.02	1894	Howden, Eng....	349.2	43.0	26.6	Pacific Mail S. S. Co., San Francisco, Cal.
B. O. No. 10, Scow.....	31,664	1	9.00	9.00	1900	Blaine, Wash....	40.0	8.0	3.5	Blaine Oil & Guano Wks. Pt. Town'd, Wash.
E. P. Cheney, Bark.....	2,495	2	1,322.21	1,200.24	1870	Bath, Me.....	195.9	38.6	24.2	L. A. Pedersen, San Francisco, Cal.
Bailey Gatzert, Str.....	3,885	1	590.06	444.32	1900	Ballard, Wash....	177.3	32.2	18.0	W. B. Scott, Portland, Or.
Bainbridge, Sch.....	3,887	1	596.00	496.00	1901	Pt. Blakely, Wash.	174.1	37.6	12.8	G. E. Billings, San Francisco, Cal.
Balboa, Sch.....	3,888	1	777.00	657.00	1901	Pt. Blakely, Wash.	185.4	38.9	14.8	G. E. Billings, San Francisco, Cal.
Balboa, Str.....	3,848	1	779.00	656.00	1886	San Fran., Cal....	98.0	14.2	7.5	San Francisco, Cal.
Balcutha, Str.....	3,882	1	1,716.00	1,554.00	1886	Glengow, Scot....	256.3	38.5	17.5	San Francisco, Cal.
Baltic, Sch.....	3,864	1	34.86	32.00	1895	Edinburg, Wash....	63.5	15.0	4.3	H. Hanson, Port Townsend, Wash.
Bangor, 4 Sch.....	3,529	1	531.40	398.87	1891	Eureka, Cal.....	163.0	36.5	11.0	C. A. Hooper, San Francisco, Cal.
Baranoff, Str.....	3,423	1	120.00	10.00	1889	Esportland, Or....	52.8	14.0	5.0	Wild Goose M. & T. Co., San Francisco, Cal.
Barb. Hemster 2 Sch.....	3,572	1	148.10	140.70	1887	Fairhaven, Cal....	102.3	28.2	8.3	S. & M. Tug Boat Co., San Francisco, Cal.
Barge No. 1, Barge.....	31,630	1	154.00	154.00	1892	Humboldt, Cal....	100.0	30.0	5.0	S. & M. Tug Boat Co., San Francisco, Cal.
Barge No. 5, Barge.....	31,631	1	154.00	154.00	1892	Humboldt, Cal....	100.0	30.0	5.0	S. & M. Tug Boat Co., San Francisco, Cal.
Barkis, Sch.....	2,475	1	25.44	24.18	1884	San Fran., Cal....	55.7	19.7	4.6	Jas. R. Chase, San Francisco, Cal.
Barracouta, 2 Str.....	30,844	3	2,152.20	1,749.06	1883	Glasgow, Scot....	275.0	35.2	19.9	Pacific Mail S. S. Co., San Francisco, Cal.
Basquaise, Sch.....	2,483	1	19.87	18.88	1897	San Fran., Cal....	47.5	16.5	4.3	D. Mantaphanis, San Francisco, Cal.
Battle Aax, Sch.....	3,715	1	10.00	10.00	1897	San de Fuca, Wn....	33.6	13.2	3.0	G. F. Klink, Seattle, Wash.
Bay City, Str.....	3,068	1	1,283.42	933.31	1878	San Fran., Cal....	30.0	33.8	13.6	W. J. Ellis, Seattle, Wash.
Bay City, Str.....	81,168	1	280.12	214.59	1887	Hood River, Or....	135.0	22.0	6.8	A. A. Johnson, Seattle, Wash.
Bea, Sch.....	3,691	1	11.20	11.20	1896	Seattle, Wash....	38.7	12.7	4.6	Pac. Pack. & Nav. Co., St. Michaels, Alaska.
Bea, Barge.....	3,693	1	539.00	539.00	1895	Benicia, Cal.....	59.0	15.0	3.1	Chas. Wright, Seattle, Wash.
Beaver, Str.....	3,649	1	37.51	29.64	1895	Benicia, Cal.....	48.6	15.1	6.0	St. Michael, Alaska.
Beaver, Str.....	3,547	1	29.12	19.41	1892	Ballard, Wash....	44.0	33.0	8.0	Maquina, Or.
Bella, Str.....	3,759	1	370.00	185.00	1896	Acme, Or.....	121.0	32.0	6.0	Pt. Townsend, Wash.
Bella, Sch.....	3,700	1	180.00	147.00	1896	Usk, Wash.....	40.3	11.9	3.1	E. Rathburn, Seattle, Wash.
Belle, Barge.....	3,643	1	55.00	55.00	1897	Seattle, Wash....	40.3	11.9	3.1	H. Olsen, San Pedro, Cal.
Belle, Str.....	3,836	1	10.00	6.00	1901	San Diego, Cal....	32.6	10.8	4.8	W. L. Carless, N. Whatcom, Wash.
Belle, Sch.....	3,895	1	6.00	5.00	1901	Tacoma, Wash....	45.6	15.9	4.8	E. L. Griffith, Sec'y, San Francisco, Cal.
Bellingham, Sch.....	3,587	1	20.32	19.31	1893	Bath, Me.....	41.8	31.3	16.7	E. Peabody, San Francisco, Cal.
Beluga, G Str.....	91,465	2	508.12	409.49	1882	San Fran., Cal....	44.5	9.5	3.6	W. A. Bender, San Francisco, Cal.
Belvedere, Str.....	3,601	1	13.49	12.70	1893	San Fran., Cal....	77.5	24.8	6.8	Coronado Beach Co., San Diego, Cal.
Bender Bros., Sch.....	3,429	1	84.87	80.63	1889	San Fran., Cal....	92.5	24.7	7.1	A. Erickson, San Francisco, Cal.
Benicia, 2 Str.....	3,185	1	144.77	86.98	1881	Martinez, Cal....	103.2	20.2	14.0	M. Turner, San Francisco, Cal.
Benicia, Str.....	3,498	1	32.50	30.88	1891	Benicia, Cal.....	169.0	40.0	14.0	Southern Pacific Co., San Francisco, Cal.
Benicia, Bktn.....	3,810	1	674.00	653.00	1898	Benicia, Cal.....	261.4	40.2	14.1	G. E. Plummer, San Francisco, Cal.
Berkeley, Str.....	3,770	1	1,945.67	1,245.00	1898	San Fran., Cal....	222.5	40.0	24.6	Alaska Commercial Co., Juneau, Alaska.
Berlin, Ship.....	3,223	1	1,634.00	1,552.00	1882	Phipsburg, Me....	30.7	10.0	4.8	Alaska Commercial Co., Juneau, Alaska.
Bertha, Sch.....	3,756	1	7.00	6.00	1898	Portland, Or.....	185.5	32.5	22.1	Alaska Commercial Co., Juneau, Alaska.
Bertha, Str.....	3,786	3	926.58	752.00	1899	Alameda, Cal....	39.8	13.0	4.5	
Bertha, Sch.....	3,612	1	13.00	12.00	1894	Gig Har., Wash....				

Sig. 7—M. E. B. A.

F. J. FLAJOLE

Phone Red 5140
Independent A 8149

G. F. BARRITT

Phone Black 8744

D. McLELLAN

Phone Black 5081

Standard Boiler Works

MARINE, STATIONARY

AND

LOCOMOTIVE BOILERS



Tanks and Stacks Built and Repaired

ALL KINDS OF SHEET IRON WORK DONE TO ORDER

WORK GUARANTEED

1013, 1015, 1017 FIRST AVENUE SOUTH

Shop Phone Main 1384

SEATTLE, WASH.

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions		Managing Owner and Home Port
			Gross	Net			L.k.th	B.r.th	
Bertha Dolbeer, Tern	3,180	1	242.96	230.37	1881	Fairhaven, Cal.	125.0	31.5	John Dolbeer, San Francisco, Cal.
Bertie Minor, Tern	3,299	1	273.43	230.51	1884	Fairhaven, Cal.	130.3	32.5	F. O. Raven, Eureka, Cal.
Berwick, Sch.	3,364	1	100.70	95.67	1887	Benluch, Cal.	82.6	27.4	R. D. Hume, Coos Bay, Or.
Bessie, Sch.	3,762	1	11.00	11.00	1898	Burton, Wash.	33.0	12.5	A. W. Woodward, Seattle, Wash.
Bessie, Str.	3,385	1	14.00	7.00	1886	Tacoma, Wash.	40.6	9.6	Port Townsend, Wash.
Bessie K, Str.	3,604	1	98.41	93.49	1893	Alameda, Cal.	84.5	26.2	A. J. Brander, San Francisco, Cal.
Boulah, Tern	3,226	1	356.86	339.14	1882	San Fran., Cal.	146.0	35.5	J. Knowland, San Francisco, Cal.
Big Bonanza, Bark.	2,974	1	1,472.80	1,399.16	1875	Newbury, Mass.	210.2	40.2	M. J. Madison, San Francisco, Cal.
Bismarck, Sch.	3,794	1	12.00	12.00	1897	N. West'mr, B. C.	34.0	11.5	Juneau, Alaska.
Biz, Str.	3,183	1	80.54	40.27	1881	Aradica, Wash.	77.5	19.0	Seattle, Wash.
Black Cat, Str.	3,853	1	16.00	7.00	1900	Hamilton, Wash.	41.0	14.5	C. L. Norton, Seattle, Wash.
Black Dia, 2 Sch.	2,478	1	14.05	39.00	1861	San Fran., Cal.	62.0	22.0	A. Potthoff, San Francisco, Cal.
Black Prince, Str.	3,866	1	159.00	100.00	1901	Everett, Wash.	91.6	19.6	C. W. Wright, Port Townsend, Wash.
Blakely, Bktn.	2,833	1	152.39	144.79	1872	Pt. Blakely, Wn.	116.2	24.7	Oceanic Packing Co., Seattle, Wash.
Blanche, Sch.	3,740	1	107.97	107.97	1897	Dungness, Wash.	89.0	24.2	Chatham Strait Pkg. Co., Seattle, Wash.
Blanche & Ella, Sch.	128,626	1	59.00	29.00	1890	Seattle, Wash.	74.8	16.3	Pac. Pack. & Nav. Co., Seattle, Wash.
Blanco, Str.	3,867	1	28.00	27.00	1891	Vancouver, B. C.	51.0	16.1	Honolulu, H. I.
Blue Star, Str.	3,573	1	37.00	18.00	1893	Marshfield, Or.	61.5	15.6	Coos Bay, Or.
Bob, Sch.	3,539	1	32.50	16.25	1892	Tacoma, Wash.	55.0	13.5	Seattle, Wash.
Bob, Sch.	3,682	1	8.28	8.28	1895	Tacoma, Wash.	33.9	10.2	Seattle, Wash.
Bohemia, Ship	2,986	1	1,633.44	1,528.95	1875	Bath, Me.	221.7	40.2	Alaska Packers' Ass'n, San Francisco, Cal.
Bonanza, Str.	3,912	1	23.37	16.07	1901	Alameda, Cal.	49.0	15.2	San Francisco, Cal.
Bonanza, Sch.	3,967	1	160.42	152.40	1875	San Fran., Cal.	102.0	27.2	N. P. Lorentzen, Sec'y, San Francisco, Cal.
Bonita, 2 Str.	3,162	2	521.45	388.80	1881	San Fran., Cal.	172.2	27.0	Pacific Coast S. S. Co., San Francisco, Cal.
Bonita, Str.	3,846	1	32.00	20.00	1900	Eagle Har., Wn.	58.6	15.0	Pac. Pack. & Nav. Co., Seattle, Wash.
Bonita, Str.	3,830	1	198.00	122.00	1900	Portland, Or.	109.0	24.4	L. P. Stimson, Portland, Or.
Bonita, Sch.	3,875	1	27.00	27.00	1901	Ballard, Wash.	52.5	15.3	Seattle, Wash.
Bowhead, Sch.	3,536	1	112.00	99.00	1891	North Bend, Or.	90.4	22.3	Seattle, Wash.
Brick, 2 Str.	3,522	1	52.00	34.00	1883	Seattle, Wash.	55.6	12.1	Seattle, Wash.
Brighton, Sch.	3,765	1	11.00	11.00	1898	Seattle, Wash.	35.4	12.5	Seattle, Wash.
Bring Gold, Sch.	3,742	1	18.03	18.03	1897	Pt. Angeles, Wn.	45.4	14.1	Seattle, Wash.
Brooklyn, Barge	3,070	1	35.65	33.89	1878	San Fran., Cal.	55.0	22.0	San Francisco, Cal.
Brooklyn, Barge	3,170	1	293.00	293.00	1901	Aberdeen, Wash.	137.0	34.1	D. Thompson, San Francisco, Cal.
Brothers, Sch.	3,465	1	54.89	52.16	1890	Vallejo, Cal.	64.3	26.1	G. S. Beale, Los Angeles, Cal.
Brothers, Sch.	3,065	1	37.00	35.00	1878	Vallejo, Cal.	57.0	21.6	Los Angeles, Cal.
Brunswick, Str.	3,749	1	436.00	274.49	1898	North Bend, Or.	141.3	34.4	Pacific Shipping Co., San Francisco, Cal.
Buckeye, Str.	3,474	1	87.48	59.49	1890	Seattle, Wash.	61.5	19.8	A. Newhall, Seattle, Wash.
Budlong, Str.	3,889	1	8.00	5.00	1901	Seattle, Wash.	32.4	8.6	G. S. Budlong, Seattle, Wash.
C. C. Cherry, Str.	127,139	1	54.00	37.00	1896	Seattle, Wash.	68.7	16.4	Pac. Packing & Nav. Co., San Francisco, Cal.
C. C. Perkins, Sch.	125,250	1	26.71	25.38	1874	Seattle, Wash.	67.6	16.1	Port Townsend, Wash.
C. D. Bryant, Bark.	125,665	2	929.29	823.38	1878	Searspoint, Me.	172.7	37.0	E. E. Kentfield, San Francisco, Cal.

CHARLES H. ALLMOND

625 FIRST AVE. SOUTH
SEATTLE

Phones Main 580

Drawings and Patterns
for Mill,
Mining and
Marine Machinery



Machinery Designed and
Construction
Superintended

*Estimates Furnished, and Personal Attention
Given to All Work.*

Having shop thoroughly lighted, and power always ready, enables us to get out emergency work in the shortest possible time.

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Lgth	B'wth	Depth	
C. F. Sargent, Ship.	125,273	3	1,704.20	1,565.68	1874	Yarmouth, Me.	220.3	41.3	17.9	G. E. Plummer, San Francisco, Cal.
C. A. Thayer, Sch.	127,097	1	452.49	390.83	1895	Fairhaven, Wash.	156.0	36.0	11.8	E. K. Wood, San Francisco, Cal.
C. H. Bradley, Str.	127,254	1	20.14	20.00	1901	Ballard, Wash.	69.7	11.4	4.5	J. F. Lamond, Seattle, Wash.
C. Linco, Str.	127,513	1	14.00	9.00	1898	Warrenton, Or.				Astoria, Or.
C. L. Place, Sch.	5,165	1	28.77	27.36	1858	San Fran., Cal.	49.0	20.0	4.4	F. M. Weise, San Francisco, Cal.
C. S. Holmes, Sch.	126,999	1	430.79	376.20	1893	Pt. Blakely, Wn.	62.8	37.0	11.5	G. E. Billings, San Francisco, Cal.
C. T. Hill, Sch.	126,539	1	140.22	123.21	1889	San Fran., Cal.	93.0	30.2	7.5	C. H. Taylor, San Francisco, Cal.
C. W. F. No. 2, Sch.	34,881	1	23.00	23.00	1900	Anacortes, Wash.	50.5	14.7	4.3	R. M. Currie, Port Townsend, Wash.
C. W. F. No. 3, Sch.	34,382	1	22.00	22.00	1900	Anacortes, Wash.	49.3	14.5	4.2	R. M. Currie, Port Townsend, Wash.
C. W. Alter, Str.	127,429	1	14.00	9.00	1900	Warrenton, Or.	48.3	10.7	3.5	B. Lindenberg, Portland, Or.
Callender, Str.	127,409	1	84.00	57.00	1900	Portland, Or.	72.6	17.6	6.2	P. Jordan, Astoria, Or.
Camacho, Str.	127,303	1	59.00	40.00	1898	Wenatchee, Wash.	89.3	18.5	3.9	E. A. Griggs, Port Townsend, Wash.
Camden, Str.	5,704	1	434.60	424.01	1847	Derby Conn.				A. Benjamin, Seattle, Wash.
Canby, Gasoline.	127,183	1	59.67	49.41	1896	Portland, Or.	78.5	14.6	5.4	V. Sturt, Astoria, Or.
Capella, Str.	127,152	1	12.27	12.27	1896	Edwards, Wash.	33.3	12.0	5.7	H. Appleford, Seattle, Wash.
Capella, Str.	127,352	1	16.00	9.00	1899	Sitka, Alaska.	52.1	11.2	4.8	..... Sitka, Alaska
Capital City, Str.	127,352	1	552.00	348.00	1898	Pt. Blakely, Wn.	150.9	30.0	5.9	..... Port Townsend, Wash.
Capt. Weber, Str.	127,869	1	612.71	501.91	1892	San Fran., Cal.	174.3	36.5	5.0	J. Gillis, Sec'y, Port Townsend, Wash.
Carlita, Str.	127,187	1	18.33	12.87	1901	N. Angeles, Wn.	43.5	11.5	5.0	I. B. Sprague, Port Townsend, Wash.
Carlisle, Str.	5,928	1	20.00	12.87	1895	N. Whittom, Wn.	43.9	10.8	5.1	Wm. G. Leale, San Francisco, Cal.
Caroline, 2 Str.	125,533	1	13.78	13.60	1892	Union City, Cal.	104.0	25.0	4.3	Wm. G. Nordby, Seattle, Wash.
Caroline, Sch.	125,533	1	47.66	43.29	1892	Tacoma, Wash.	36.0	12.6	5.7	J. Olsen, San Francisco, Wash.
Caroline, Dixon, Sch.	125,642	1	1,438.02	1,292.21	1872	Newcastle, Me.	202.5	40.5	4.75	Cyrus Walker, Port Townsend, Wash.
Carrie & Annie, Sch.	125,971	1	95.43	90.66	1885	Essex, Mass.	88.4	22.9	8.6	W. Frear, Agt., San Francisco, Cal.
Carrie & Davis, Sch.	125,331	1	41.00	13.33	1890	Seattle, Wash.	48.6	11.9	3.6	J. S. McMillin, Seattle, Wash.
Carrie Dove, Sch.	125,263	1	707.56	634.86	1890	Pt. Blakely Wn.	188.7	38.0	14.2	A. L. Piper, San Francisco, Cal.
Carrie Dove, Sch.	5,147	1	54.47	51.77	1864	San Fran., Cal.	69.0	22.7	5.0	Seattle & Alaska Fish Co., Pt. Townsend.
Carrie Dove, Sch.	125,675	1	86.00	82.00	1884	Essex, Mass.	81.4	22.5	8.5	H. Hansen, San Francisco, Cal.
Carrie Dove, Sch.	125,187	1	21.41	20.36	1877	San Fran., Cal.	47.0	18.0	4.4	Wm. E. Mighell, San Francisco, Cal.
Carro Trine, Sch.	125,590	1	1,450.06	1,352.62	1872	Bath, Me.	198.2	39.6	24.6	E. A. Swift, Port Townsend, Wash.
Carrollton, Bark	125,075	2	120.82	66.64	1884	Seattle, Wash.	98.8	16.2	4.1	P. H. Whitelaw, San Francisco, Cal.
Cascade, 1 Str.	125,227	1	93.32	88.67	1887	San Fran., Cal.	79.5	24.0	6.0	T. E. H. Whitelaw, San Francisco, Cal.
Catalina, Sch.	125,428	1	36.48	18.24	1850	Wilmington, Cal.	50.7	12.0	5.8	Wilmington Trans. Co., Los Angeles, Cal.
Catherine Miller, Sch.	5,154	1	35.45	33.68	1858	San Rafael, Cal.	61.0	18.7	4.4	P. C. Munson, San Francisco, Cal.
Cecelia, Str.	127,342	1	9.35	9.35	1899	San Fran., Cal.	45.0	10.4	3.5	J. C. Hawkes, San Francisco, Cal.
Cecilia Maria, Sch.	125,045	1	22.32	22.07	1871	San Fran., Cal.	48.0	16.2	3.7	H. Evers, San Francisco, Cal.
Cella, 3 Str.	126,224	1	173.79	115.50	1880	Benicia, Cal.	118.0	25.0	8.5	J. D. Baedle, San Francisco, Cal.
Celtic, str.	127,424	1	20.00	12.00	1900	Benicia, Cal.	46.5	11.5	4.4	J. Chappell, Port Townsend, Wash.
Centennial, Sch.	125,524	1	21.79	20.71	1876	San Fran., Cal.	47.0	16.7	4.3	Chris. Decker, San Francisco, Cal.
Centennial, Sch.	127,252	3	2,075.00	1,184.00	1859	London, Eng.	324.0	35.6	13.1	The Chas. Nelson Co., Seattle, a Wash.
Centennial, Ship	125,715	1	1,286.87	1,138.30	1875	Boston, Mass.	190.4	38.0	22.4	Alaska Packers' Ass'n, Alaska
Centennial, Bark	4,225	1	681.00	1,113.95	1859	Boston, Mass.	150.4	33.0	20.2	Rufus, Calhoun, Port Townsend, Wash.

MORAN BROS. COMPANY

SEATTLE, WASHINGTON

Ship and Engine Builders

Steel and Wood Vessels, Steam or Sail, for Ocean,
Sound and River Service. : : : : :
Foundry, Machine, Boiler and Forge Shops. Larg-
est Tools and Equal to any Requirement. Heavy
Forgings a Specialty. : : : : : :

Dry Dock and Marine Railway

Ship Chandlery, Engineers' Supplies.

Saw and Planing Mill

Capacity: Timber 48 inches square, 125 feet long,
including every description of Rough, Dressed or
Kiln Dried Yellow Fir, Red Cedar or Spruce.

We make a Specialty of Long and Large Timber
and can dress four sides 20 x 30 inches. : : :

SPARS—The longest, largest, clearest and best in
the world; rough or hewn. : : : : :

PILES or timber of any description. : : : :

Cars from all transcontinental roads enter our
yards and docks. : : : : : :

DOCK SHIPMENTS TO ALL PARTS OF THE WORLD

ELECTRIC CRANE—Capacity to transfer 75 tons from car to vessel

WE INVITE CORRESPONDENCE

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND REG	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Lgh.	Bth	Deph	
Challenge, Sch.....	126,339	1	39.00	37.00	1885	Seattle, Wash....	62.5	17.4	6.1	N. Pac. Trade & Pkg. Co., Pt. Townsend, Alaska.
Challenger, Str.....	127,506	1	54.00	29.00	1901	Ballard, Wash....	68.0	18.8	7.4	N. Pac. Trade & Pkg. Co., Pt. Townsend, Alaska.
Challenger, Str.....	121,591	1	1,456.00	1,398.00	1877	Bath, Me.....	212.4	39.7	23.9	R. Swasey, San Francisco, Cal.
Challenger, Str.....	126,133	1	279.90	265.91	1883	Eureka, Cal.....	127.9	32.5	9.2	J. Swensen, San Francisco, Cal.
Champion, Sch.....	5,488	2	1,456.00	1,398.69	1877	Bath, Me.....	212.4	39.7	23.9	C. S. Healy, San Francisco, Cal.
C. B. Kenney, Bark.....	125,691	1	44.19	42.00	1867	San Fran., Cal....	64.5	23.0	4.55	J. Jensen, San Francisco, Cal.
C. Counselman, Str.....	127,421	1	1,128.00	1,014.00	1878	Bath, Me.....	179.3	37.2	22.8	J. Jensen, San Francisco, Cal.
Chas. E. Moody, Ship.....	126,070	1	1,230.00	55.00	1900	Ballard, Wash....	50.0	15.0	3.5	Pac. Pack. & Nav. Co., Pt. Townsend, Wash.
C. F. Crocker, 4 Bktn.....	126,702	1	2,003.00	1,734.00	1882	Bath, Me.....	233.9	43.4	18.2	A. Anderson, San Francisco, Cal.
Chas. Hanson, Sch.....	125,933	1	855.23	762.63	1890	Alameda, Cal....	204.0	40.0	15.0	M. Olsen, San Francisco, Cal.
Chas. Nelson, Str.....	127,253	1	1,922.24	1,824.64	1881	Eureka, Cal.....	107.5	30.1	8.8	J. Newman, San Francisco, Cal.
C. R. Wilson, Sch.....	126,821	1	1,057.86	802.00	1898	Alameda, Cal....	196.5	37.8	12.8	The Chas. Nelson Co., San Francisco, Cal.
Charle, Sch.....	125,833	1	328.12	328.12	1891	Fairhaven, Cal....	150.0	35.0	11.0	H. Wilson, San Francisco, Cal.
Chasseur, Sch.....	127,155	1	9.00	9.00	1880	Madison, Wash....	36.2	12.7	4.2	Argonaut Mng. Co., Port Townsend, Wash.
Chas. E. Falk, Tern.....	126,579	1	14.41	14.41	1896	Hogiam, Wash....	34.8	12.4	4.0	N. H. Falk, Eureka, Cal.
C. H. Hamilton, Str.....	127,290	1	298.98	245.61	1889	Fairhaven, Cal....	142.3	34.0	9.0	N. H. Falk, Eureka, Cal.
C. H. Merchant, Sch.....	126,502	1	283.14	268.99	1877	Essex, Mass.....	120.0	33.2	10.5	Henry Smith, San Francisco, Cal.
C. L. Hutch'n, Barge.....	34,331	1	80.00	80.00	1898	Portland, Or.....	90.0	23.7	9.8	North-American Com'l Co., San Francisco.
Chas. R. Spencer, Str.....	127,574	1	474.00	284.00	1901	Portland, Or.....	151.0	31.0	6.0	E. W. Spencer, Portland, Or.
Chasseur, Ship.....	127,155	1	1,885.00	1,727.00	1881	Bath, Me.....	221.7	42.4	17.8	..... Tacoma, Wash.
Chehalis, Bktn.....	126,682	1	83.42	55.28	1890	Hogiam, Wash....	34.8	12.4	5.0	F. L. Ford, Seattle, Wash.
Chehalis, Sch.....	126,809	1	690.71	642.17	1891	Cosmopolis, Wn....	73.6	16.0	7.6	Simpson Lumber Co., San Francisco, Cal.
Chester, Str.....	127,201	1	723.00	723.00	1901	Fairhaven, Wash....	177.5	40.0	14.5	Robt. Sudden, San Francisco, Cal.
Chico, Sch.....	126,499	1	130.67	98.87	1897	Portland, Or.....	101.0	20.9	3.8	O. Kellogg, Portland, Or.
Chilkat, Str.....	126,792	1	103.88	98.69	1887	Bonilla, Cal.....	83.6	27.4	7.2	W. H. Thornley, San Francisco, Cal.
Chino, Str.....	126,792	1	541.00	396.00	1890	Tacoma, Wash....	146.6	28.8	18.0	R. H. Swayne, San Francisco, Cal.
Chino, Str.....	127,512	1	172.79	98.00	1901	San Fran., Cal....	121.6	23.0	10.6	Alaska Packers' Ass'n, Or.
Chino, Str.....	127,512	1	14.00	9.00	1901	Warrenton, Or....	45.6	11.4	3.7	G. W. Sanborn, Astoria, Or.
Chino, Str.....	126,542	1	21.63	10.82	1889	Astoria, Or.....	59.0	14.5	4.3	Puget Sound Pack. Co., San Francisco, Cal.
Chino, Str.....	127,457	1	33.00	31.00	1899	Chino, Wash....	43.1	18.6	4.1	F. Johnson, Astoria, Or.
Chloepok No. 3, Brge.....	34,323	1	44.00	44.00	1899	Ballard, Wash....	70.5	18.9	5.1	Pac. Pack. & Nav. Co., San Francisco, Cal.
Ch. Columbus, Str.....	127,285	1	41.00	19.00	1898	San Fran., Cal....	75.0	18.5	7.0	P. Costa, San Francisco, Cal.
Churchill, Sch.....	127,408	1	655.00	600.00	1900	San Fran., Cal....	178.2	38.3	14.6	F. H. Hammerich, San Francisco, Cal.
Cinderella, Sch.....	5,148	1	26.48	26.48	1860	Seattle, Wash....	52.0	18.4	4.2	L. Willie, Port Townsend, Wash.
City of Aberdeen, Str.....	126,766	1	244.84	138.27	1891	Aberdeen, Wash....	64.9	19.5	6.0	H. C. Henry, Seattle, Wash.
City of Borrell, Str.....	127,063	1	60.00	48.61	1894	Seattle, Wash....	127.0	19.5	3.4	A. M. Towle, Seattle, Wash.
City of Bradford, Str.....	127,288	1	39.00	21.00	1898	St. Michael, Aka....	41.8	12.2	3.2	Merchants, Transp. Co., San Francisco, Cal.
City of Columbia, Str.....	126,954	1	23.12	16.95	1893	Seattle, Wash....	41.8	12.2	3.2	Merchants, Transp. Co., San Francisco, Cal.
City of Dawson, Str.....	127,256	1	230.93	206.05	1898	San Fran., Cal....	114.0	26.2	5.5	La Conner T. & T. Co., Seattle, Wash.
City of Denver, Str.....	127,238	1	355.00	228.00	1898	Seattle, Wash....	115.8	28.6	5.7	La Conner T. & T. Co., Seattle, Wash.

MARKETERS OF
VACUUM OILS
STANDARD OIL COMPANY

Cor. Charles St. and Seventh Ave. South
SEATTLE, WASH.

Marine Valve Oil

XXXX Special Marine Engine Oil

Mineral Seal Oil 300° test

Marine Lamp Oil

Capital Cylinder Oil

Renown Engine Oil

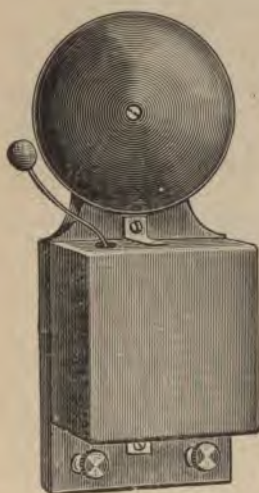
**All Kinds of Lubricating, Cylinder, and Burning Oils,
Grease, Etc.**

SAMPLES FREE, WITH PRICES ON APPLICATION

STOCKS KEPT BY STANDARD OIL COMPANY

Portland, Oregon	Los Angeles, California	San Francisco, California
Tacoma, Washington	San Diego, California	Fresno, California
Spokane, Washington	Sacramento, California	Oakland, California
Marysville, California	Stockton, California	San Jose, California

WE INVITE A COMPARISON
OF OUR PRICES ON
Electrical Goods
DYNAMOS, MOTORS, ETC.



On everything
pertaining to

Electrical Supplies

We can give you
quotations which
cannot be duplicated
on the Coast.



Whether in immediate need of anything in our line or not

**We most cordially invite you
to come into our stores**

and see what we are offering. We know we can
save you money

LET US QUOTE YOU
Z. C. MILES & PIPER CO.

MAIN STORE,

Cor. 1st Ave and Spring St.

N. W. FIXTURE ANNEX,

313 1st Ave. South

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

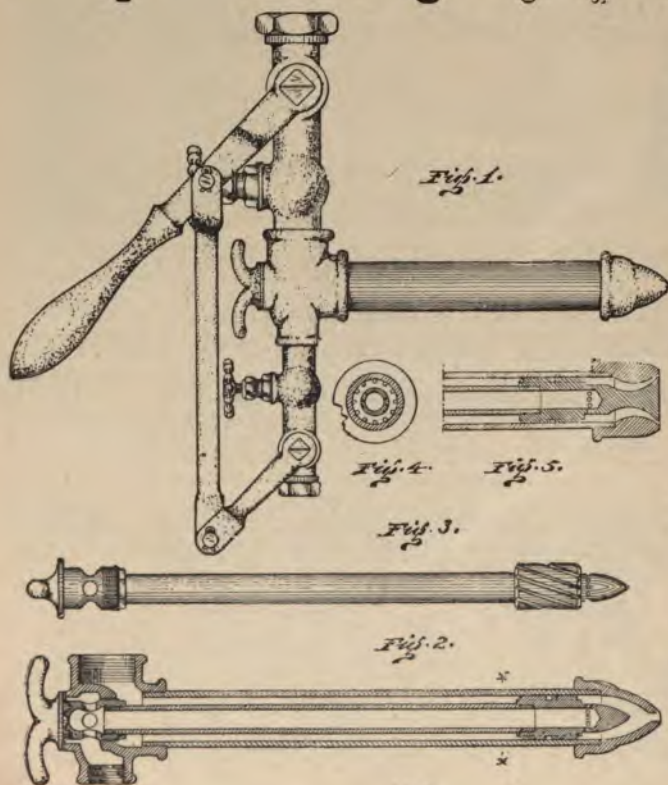
NAME AND RIG	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions		Managing Owner and Home Port
			Gross	Net			Length	Depth	
Compeer, Tern.	125,585	1	347.13	308.99	1877	Fairhaven, Cal.	142.5	32.5	S. B. Peterson, San Francisco, Cal.
Comus, Sloop	127,093	1	5.40	5.40	1895	Pt. Angeles, Wn.	30.0	10.0	H. J. Hansen, Mary Island, Alaska.
Concord, Str.	126,406	1	11.00	11.00	1898	St. Michael, Ala.	66.0	11.0	H. C. Lassen, San Francisco, Cal.
Confanza, Sch.	126,470	1	88.56	84.23	1888	Benicia, Cal.	78.0	25.5	Cal. Transp. Co., San Francisco, Cal.
Constance, Str.	125,267	1	422.17	377.60	1874	San Fran., Cal.	145.0	32.0	Cal. Transp. Co., San Francisco, Cal.
Consuelo, Bttn.	125,845	1	293.54	279.00	1880	San Fran., Cal.	133.5	31.2	The Chas. Nelson Co., San Francisco, Cal.
Coos Bay, Str.	125,223	2	554.86	403.54	1884	Marshfield, Or.	180.5	24.0	J. S. Howard, San Francisco, Cal.
Coos River, Str.	126,700	1	16.00	8.00	1890	Marshfield, Or.	44.6	11.6	C. H. Green, Coos Bay, Or.
Copper Queen, Str.	126,700	1	13.00	6.00	1889	Coquille, Or.	53.0	10.4	Wm. Hunter, Coos Bay, Or.
Coquille, Sch.	127,372	1	103.40	97.95	1883	Coquille, R., Cal.	92.9	23.5	R. Sudden, San Francisco, Cal.
Coquille River, Str.	126,163	1	424.10	274.16	1896	Prosper, Or.	146.21	34.1	H. Pohl, Seattle, Wash.
Cora, Sch.	125,746	1	5.41	5.41	1891	Seattle, Wash.	30.0	11.5	G. W. Carter, Port Townsend, Wash.
Cora May, Sch.	125,528	1	13.08	12.43	1888	Newell, Wash.	35.8	11.3	H. Zettler, Seattle, Wash.
Cordella Heald, 2 Str.	127,108	1	9.98	9.98	1895	Oakland, Cal.	76.5	16.0	J. L. Heald, San Francisco, Cal.
Corinthian, Sch.	127,425	1	69.49	39.06	1890	Oakland, Cal.	81.0	25.6	San Juan Fish & Pack. Co., Seattle, Wash.
Corinthian, Sch.	125,846	1	94.23	89.52	1892	Alameda, Cal.	73.6	18.4	W. G. Hall, San Francisco, Cal.
Cornella Cook, Str.	127,417	1	60.00	34.00	1890	Portland, Or.	142.6	34.0	J. D. Spreckels, San Francisco, Cal.
Corona, Tern.	126,168	1	394.36	374.65	1883	Pt. Blakely, Wn.	210.5	34.1	Thos. Pollard, San Francisco, Cal.
Coronado, Bktn.	125,471	2	1,062.72	1,007.08	1874	Sunderd, Eng.	100.0	26.0	Pacific Shipping Co., San Francisco, Cal.
Coronado, Str.	125,373	1	308.54	222.26	1886	Aberdeen, Wash.	186.1	36.2	C. Nelson, Seattle, Wash.
Coronado, Str.	125,468	1	578.20	381.50	1890	Millbridge, Me.	160.2	34.2	San Juan Fish Co., Seattle, Wash.
Coryphene, Bark	125,653	1	811.00	733.00	1873	Benicia, Cal.	146.3	34.2	C. E. Dugan, San Francisco, Cal.
Courtney Ford, Bktn.	125,173	1	401.11	352.33	1883	Coupeville, Wn.	45.7	11.7	E. Simpson, Seattle, Wash.
Crescent, Sch.	127,219	1	15.72	15.72	1897	Tacoma, Wash.	49.4	10.6	J. Erikson, San Francisco, Cal.
Crescent, Str.	125,896	1	10.24	6.58	1892	Tacoma, Wash.	49.4	10.6	Stk. Alaska, Alaska.
Crescent City, 2 Str.	125,914	1	296.77	198.86	1882	San Fran., Cal.	145.0	28.4	J. L. Anderson, Seattle, Wash.
Cristine, Sch.	127,237	1	15.00	15.00	1898	Pt. Blakely, Wn.	65.3	14.3	St. Michael, Alaska.
Crockett, Sch.	127,237	1	62.00	56.00	1891	San Fran., Cal.	35.0	24.2	C. Schmalz, Unga, Alaska.
Cruiser, Str.	125,368	1	32.00	32.00	1886	North Bend, Or.	70.0	16.0	J. D. Spreckels Bros. & Co., San Francisco.
Crystal, Sch.	127,073	1	34.00	32.00	1895	Tacoma, Wash.	48.6	15.2	
Cub, Str.	127,373	1	19.00	11.00	1898	San Fran., Cal.	45.0	12.0	
Cyrene, Str.	125,774	1	21.57	15.03	1891	Seattle, Wash.	61.5	10.4	
Czarina, 2 Sch.	125,818	1	230.40	128.88	1891	Fairhaven, Cal.	116.0	30.6	
Czarina, 2 Str.	126,693	2	1,045.78	793.00	1883	Sunderd, Eng.	216.0	36.8	
D. Armstrong, Str.	157,521	1	32.00	16.00	1898	St. Michael, Ala.	56.0	16.0	St. Michael, Alaska.
D. E. Knight, Str.	6,867	1	217.22	196.29	1875	Marysville, Cal.	131.5	28.4	E. C. Wright, San Francisco, Cal.
D. R. Campbell, Str.	157,509	1	718.68	409.06	1898	Seattle, Wash.	176.1	35.4	R. Moran, Seattle, Wash.
Daisy D. Haskell, Sch.	157,412	1	9.44	8.37	1894	Petaluma, Cal.	26.0	11.0	S. Haskell, San Francisco, Cal.
Dalles City, Str.	157,315	1	446.00	333.00	1898	Portland, Or.	152.0	30.9	H. Glenn, The Dalles, Or.
Daphne, Str.	157,616	1	14.00	10.00	1901	S. Ben, Wash.	42.0	12.7	S. B. Salting, Port Townsend, Wash.
Dashing Wave, Ship	6,533	1	1,054.31	941.84	1853	Portsmo th, N. H.	181.8	39.6	Chas. E. Hill, Tacoma, Wash.

E. W. TUCKER & CO.

Engineers, Machinists and General Contractors

OFFICE AND WORKS: 130-132 MAIN ST., SAN FRANCISCO, CAL.

Patentees and Sole Manufacturers of Tucker's
Self-Adjusting Metallic Packing for Marine,
Stationary and Locomotive Engines, Pumps,
Steam Hammers, Etc. Also, Bridge Walls,
Tube Plug, Sectional Surface Condenser and
Electric Warehouse Elevators. Bloomberg's
Boiler Circulators, Feed Water Heaters, Evap-
orators. : : : : :



PATENTEES AND SOLE MANUFACTURERS of the Tucker & Grundell
Superheating and Oil Burning System for all purposes of heat in the
Mechanical Arts. We have made this a specialty for the past 17 years.
We are protected by patents embracing every country of importance in
the world.

Our Oil Burning System

IS IN USE ON THE

O. S. S. "Mariposa."

"Alameda."

S. S. "George Loomis,"

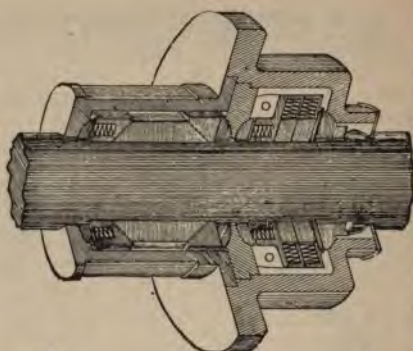
"Asuncion."

"Prentiss."

"Marshfield."

Tugs "Sea Rover" and

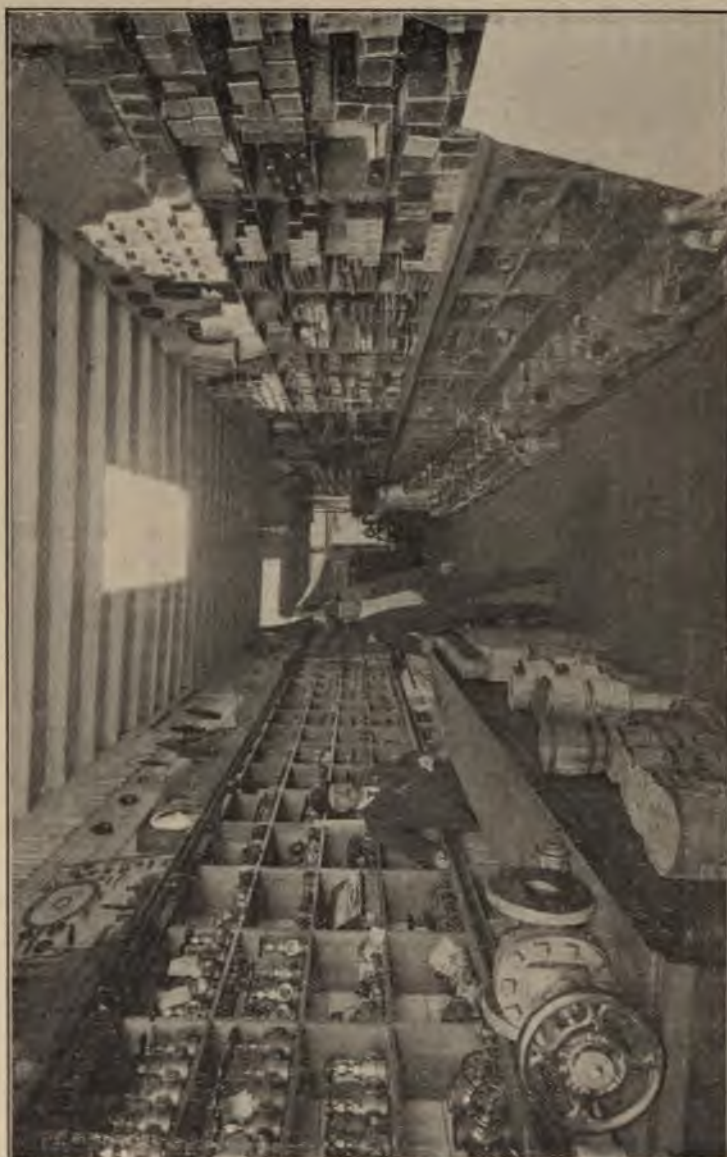
"Aurelia."



Tucker Self-Adjusting Metallic Packing

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dk's.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Length	Breadth	Depth	
Dauntless, Str.	157,543	1	91.00	61.00	1899	Tacoma, Wash.	93.1	19.8	5.9	L. B. Moe, Seattle, Wash.
Dauntless, Str.	157,353	1	612.71	501.91	1892	San Fran., Cal.	174.5	36.5	8.0	J. Gillis, Sec'y, San Francisco, Cal.
Dauntless, Sch.	157,429	1	12.19	11.59	1895	Everett, Wash.	39.3	13.0	4.7	G. A. Montague, Port Townsend, Wash.
Dauntless, 4 Sch.	157,526	1	548.39	478.13	1908	Hogiam, Wash.	162.2	37.3	13.2	E. K. Wood Lumber Co., San Francisco, Cal.
Dawn, Sch.	157,618	1	821.00	748.00	1901	Marshall, Wash.	32.0	14.1	5.1	I. C. Curtis, Los Angeles, Cal.
Dawn, Str.	157,169	1	14.00	12.00	1883	Oakland, Cal.	41.0	13.4	4.5	Caruiz Packing Co., San Francisco, Cal.
Dawn, Str.	157,566	1	12.00	9.68	1900	Alameda, Cal.	44.0	13.4	4.5	Chas. E. Naylor, Sec'y, San Francisco, Cal.
Dawson, Cit. Str.	157,508	1	119.01	86.44	1898	San Fran., Cal.	84.5	22.5	6.10	C. Peterson, Port Townsend, Wash.
Deeahks, Sch.	157,359	1	45.10	42.85	1892	Seattle, Wash.	60.0	17.8	7.2	G. W. Hind, San Francisco, Cal.
Defender, Sch.	157,457	1	446.44	382.21	1896	Fairhaven, Cal.	156.0	36.0	11.2	D. J. Moore, Portland, Or.
Defender, Barge	35,563	1	290.00	265.00	1898	Globe, Or.	127.0	33.0	8.0	W. L. Griffin, Port Townsend, Wash.
Defender, Str.	157,587	1	25.00	17.00	1900	Tacoma, Wash.	70.5	16.2	5.8	E. K. Wood Lumber Co., San Francisco, Cal.
Defiance, Sch.	157,487	1	604.28	526.26	1897	Hogiam, Wash.	179.8	37.7	13.7	M. McDowell, Seattle, Wash.
Defiance, Str.	157,488	1	85.00	68.00	1897	Tacoma, Wash.	60.5	16.0	5.9	A. B. Spreckles, San Francisco, Cal.
Defiance, Str.	157,488	1	255.00	127.00	1899	Camden, N. J.	122.0	22.2	14.2	W. McDowell, Port Townsend, Wash.
Defiance, Str.	157,607	1	171.00	116.00	1901	Tacoma, Wash.	93.0	24.5	6.7	M. Still, Port Townsend, Wash.
De Haro, Str.	157,541	1	8.00	5.00	1901	Fairhaven, Wash.	28.1	9.7	3.0	A. E. Lucy Woods, Or.
Della, Str.	157,638	1	20.00	14.00	1901	Whitcom, Wash.	31.6	9.5	2.7	J. O. Leadbetter, Port Townsend, Wash.
Della, D. Sch.	157,638	1	5.00	5.00	1901	Ballard, Wash.	61.3	13.3	6.7	G. L. Hobbs, Seattle, Wash.
Del Monte, Sch.	157,551	1	34.00	34.00	1899	Bentley, Cal.	82.6	27.4	7.1	R. D. Hume, Empire City, Or.
Del Norte, Sch.	157,187	1	100.70	95.67	1887	Tiburon, Cal.	158.0	32.2	12.5	Chlocock Fishing Co., Seattle, Wash.
Del Norte, Str.	157,224	1	450.11	279.66	1890	Stanwood, Wash.	175.0	36.0	14.0	J. D. Gray, San Francisco, Cal.
Della, Str.	157,224	1	82.00	59.00	1888	Fairhaven, Cal.	125.4	24.7	7.75	J. Whiteside, San Francisco, Cal.
Despatch, Str.	157,556	1	698.66	539.04	1899	Astoria, Or.	37.5	12.7	3.0	S. C. Allen, Honolulu, H. I.
Dewey, Sch.	157,515	1	235.00	235.00	1898	Chicago, Ill.	206.0	31.4	20.4	H. Diamond, San Francisco, Cal.
Diana, Str.	157,425	1	12.00	8.00	1895	London, Eng.	120.0	25.6	15.0	Alaska Steamship Co., Port Townsend, Wash.
Diamond, Head, Bark.	157,574	1	1,102.00	952.00	1866	San Fran., Cal.	165.0	35.0	13.5	White Star S. S. Co., Port Townsend, Wash.
Diamond, Str.	20,618	1	225.00	212.00	1898	Hogiam, Wash.	110.9	19.5	8.9	Rosario Straits Packing Co., Seattle, Wash.
Dirigo, Str.	157,502	1	843.55	592.66	1898	Port Townsend, Wash.	52.0	13.8	6.1	F. E. Curtis, Port Townsend, Wash.
Discovery, Str.	157,263	1	209.00	111.00	1889	Astoria, Or.	95.8	21.6	7.9	R. Strong, Portland, Or.
Discovery, Str.	157,303	1	24.69	13.47	1891	Hogiam, Wash.	95.8	22.4	8.7	E. P. Blake, Seattle, Wash.
Dode, Str.	157,534	1	215.00	135.00	1896	Olympia, Wash.	95.5	15.5	9.5	Alaska Steamship Co., Seattle, Wash.
Dolphin, Str.	157,183	1	84.26	60.36	1886	Seattle, Wash.	213.0	32.0	15.0	M. Johnson, Tacoma, Wash.
Dolphin, Barge	35,540	1	196.51	182.00	1900	Whitcomb, Del.	55.0	15.3	6.2	L. Greenum, Sec'y, San Francisco, Cal.
Dolphin, Str.	157,567	1	82.00	49.00	1892	Tacoma, Wash.	112.0	27.2	13.2	C. Healey, San Francisco, Cal.
Dolphin, Str.	157,393	2	22.44	21.32	1894	San Fran., Cal.	92.0	23.1	4.8	C. M. L. Bees, Seattle, Wash.
Dora, 2 Str.	157,000	1	218.66	167.17	1884	San Fran., Cal.	32.0	12.5	4.6	A. Dodd, San Francisco, Cal.
Dora, Sch.	157,134	1	44.91	42.67	1884	San Fran., Cal.	32.0	12.5	4.6	M. Rehner, Seattle, Wash.
Dora, Sch.	6,818	1	42.34	42.67	1874	San Fran., Cal.	32.0	12.5	4.6	M. Rehner, Seattle, Wash.
Dora, B. Sch.	6,818	1	15.93	15.93	1886	Port Orchard, Wash.	133.7	33.3	10.4	A. Dodd, San Francisco, Cal.
Dora Bluhm, Term.	157,445	1	330.44	318.15	1883	Port Blakely, Wash.	42.8	11.0	4.2	M. Rehner, Seattle, Wash.
Dorothy, Sch.	157,433	1	13.18	9.14	1895	Edwards, Wash.	42.8	11.0	4.2	M. Rehner, Seattle, Wash.



STORE OF ENGINEERS SUPPLY CO., INC., RAILROAD AVE. BET. YESLER WAY AND WASHINGTON ST.

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Lgth	B'rh	Depth	
Dorothy, Str.....	157,505	1	126.00	62.59	1898	Seattle, Wash.	75.3	21.0	3.8	G. H. Munson, Tacoma, Wash.
Dorothy, Str.....	157,569	1	8.00	5.25	1900	San Fran., Cal.	37.0	10.3	3.5	H. E. Pennell, San Francisco, Cal.
Dorothy, Str.....	157,318	1	244.58	191.60	1891	Sacramento, Cal.	150.0	33.5	3.5	J. H. Roberts, San Francisco, Cal.
Dove, Str.....	157,547	1	10.00	7.00	1898	Tacoma, Wash.	9.5	9.5	4.3	P. N. Kearney, Astoria, Or.
Dreadnought, Sch.....	6,425	1	40.00	38.00	1886	San Fran., Cal.	60.0	23.0	4.5	P. H. C. Somers, San Francisco, Cal.
Dredger No. 1, Str.....	157,504	1	282.00	222.00	1898	Portland, Or.	100.0	26.2	6.7	J. Farmer, Seattle, Wash.
Drift, Sch.....	157,409	1	8.88	8.44	1894	Madrone, Wash.	27.6	11.0	5.3	G. J. Farmer, Seattle, Wash.
Dude, Str.....	157,596	1	41.00	39.00	1901	Stockton, Cal.	54.5	15.5	3.5	F. Wright, San Francisco, Cal.
Duxbury, Sch.....	157,456	1	37.75	30.95	1896	Benicia, Cal.	61.5	19.0	5.0	Pac. Packing & Nav. Co., San Francisco, Cal.
E. B. Jackson, Sch.....	136,954	1	682.00	615.00	1901	Aberdeen, Wash.	182.7	38.5	14.6	H. Wilson, San Francisco, Cal.
E. D. Smith, Str.....	136,379	1	133.62	115.61	1893	Lowell, Wash.	89.0	25.0	5.0	P. Smith, Seattle, Wash.
E. Jax, Barge.....	36,893	1	457.16	446.18	1898	Seattle, Wash.	109.4	36.8	5.0	Drummond Litherage Co., Seattle, Wash.
E. K. Wood, 4 Sch.....	135,995	1	520.74	451.73	1888	Pt. Blak'ly, Wn.	70.3	37.5	11.7	J. Tuft, San Francisco, Cal.
E. L. Dwyer, Str.....	136,267	1	64.00	44.00	1892	Astoria, Or.	69.0	17.0	5.9	The George & Baker Co., Pt. Townsend, Wash.
Eagle, Str.....	136,812	1	40.00	23.00	1900	Eagle Har., Wn.	53.8	15.5	5.5	G. H. Abell, Port Townsend, Wash.
Eagle, Str.....	136,906	1	9.00	8.00	1900	Seattle, Wash.	37.5	8.7	2.1	W. Niedergesess, Seattle, Wash.
Eagle, Str.....	136,857	1	14.00	10.00	1900	Warrenton, Or.	48.9	10.4	3.5	J. Keating, Astoria, Or.
Echo, Str.....	136,895	1	36.69	30.02	1893	Snobomish, Wn.	70.2	10.2	2.0	B. A. Simpson, San Francisco, Cal.
Echo, Bktn.....	136,573	1	707.57	650.30	1896	North Bend, Or.	183.0	39.4	15.0	A. M. Griggs, Seattle, Wash.
Echo, Str.....	136,791	1	56.00	53.00	1901	Tacoma, Wash.	66.5	18.2	7.3	....., Tacoma, Wash.
Echo, Str.....	136,887	1	76.00	73.00	1900	Cocquill, Wash.	66.0	16.4	3.0	....., Coos Bay, Or.
Eclipse, Str.....	136,785	1	21.19	16.34	1890	Benicia, Cal.	104.0	27.0	10.2	R. W. McChesney, San Francisco, Cal.
Eclipse, Str.....	136,087	1	53.00	36.00	1899	Astoria, Or.	67.6	16.8	5.6	Pacific Packing & Nav. Co., Astoria, Or.
Eclipse, Ship.....	135,348	1	1,594.63	1,469.21	1878	Bath, Me.	221.7	40.3	24.3	J. C. Eschen, San Francisco, Cal.
Eclipse, Str.....	136,504	1	17.67	7.84	1895	Ballard, Wash.	45.2	13.0	4.6	Pac-Amer. Fisheries Co., Pt. Townsend.
Ed. E. Kalkins, Sch.....	136,765	1	5.00	5.00	1899	Fairhaven, Wash.	36.7	9.2	3.2	A. J. Kalkins, Port Townsend, Wash.
Eddy, Sch.....	8,940	1	39.22	37.28	1873	San Fran., Cal.	60.0	22.0	4.2	G. W. Freethy, San Francisco, Cal.
Edgar, Str.....	136,127	1	26.00	13.00	1880	Samish Is., Wn.	30.0	10.5	3.3	....., Port Townsend, Wash.
Edison, Str.....	135,376	1	17.99	12.06	1888	San Fran., Cal.	120.5	24.0	9.7	J. G. Megler, Tacoma, Wash.
Edith, Str.....	135,291	1	192.39	78.01	1887	Pt. Discov'y, Wn.	78.7	17.7	9.3	J. C. Megler, Brookfield, Wash.
Edith, Str.....	135,292	1	74.01	37.05	1887	Waldport, Or.	42.9	13.0	4.7	A. C. Woodbury, Seattle, Wash.
Edith, Sch.....	136,666	1	16.64	16.64	1896	Sunder'd, Eng.	50.0	14.0	5.0	A. C. Tetzen, San Francisco, Cal.
Edith, Str.....	136,571	1	22.00	14.00	1882	Seattle, Wash.	27.6	4.7	27.4	C. Hall, Agent, San Francisco, Cal.
Edith, Str.....	136,358	1	2,369.74	1,495.27	1883	Seattle, Wash.	58.6	12.6	6.0	E. Y. Grasset, Port Townsend, Wash.
Edna, Str.....	135,555	1	32.00	14.00	1892	Seattle, Wash.	28.0	9.3	3.4	A. H. Byrnes, Seattle, Wash.
Edna, M. Sch.....	136,656	1	5.39	5.39	1889	Pt. Blak'ly, Wn.	43.1	16.2	5.2	J. M. Watts, Seattle, Wash.
Edna, Sch.....	136,688	1	20.50	20.50	1898	Boston, Mass.	169.3	35.5	21.3	Chas. Nelson, San Francisco, Cal.
Edna, Sch.....	136,688	1	20.50	20.50	1898	Boston, Mass.	169.3	35.5	21.3	Chas. Nelson, San Francisco, Cal.
Edward May, Bark.....	135,042	1	928.49	859.76	1874	Astoria, Or.	51.7	17.2	4.3	A. Nelson, Astoria, Or.
Eme, M. Sch.....	136,054	1	33.77	31.98	1889	Woodland, Cal.	69.3	17.2	4.3	....., Portland, Or.
Erallite, Str.....	136,246	1	120.00	82.00	1891	San Fran., Cal.	76.0	20.0	4.0	A. W. Brooks, San Francisco, Cal.
Eralne, Str.....	135,190	1	16.46	8.23	1875	San Fran., Cal.	41.0	10.5	4.6	....., San Francisco, Cal.

THE PUGET SOUND

Iron and Steel Works

MANUFACTURERS OF

MARINE, GASOLINE AND LOGGING

ENGINES AND HOISTS

Marine Repairing a Specialty

FRIEND CHIEF:

If you are not making the best possible speed, it is because you are not turning a "PAPST" wheel.

Sole Manufacturers of Papst Wheels

TELEPHONE MAIN 257

21st and A Streets,

TACOMA, WASH.

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dfs.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Length	Breadth	Depth	
Elaine, Str.	136,950	1	14.00	9.00	1901	San Fran., Cal.	47.5	11.0	5.5	A. Brooks, San Francisco, Cal.
El Capitan, Str.	8,230	1	982.00	689.00	1898	San Fran., Cal.	194.0	33.6	14.5	H. Kirchmann, San Francisco, Cal.
El Dorado, Sch.	136,899	1	881.00	794.00	1901	Aberdeen, Wash.	194.0	40.0	14.9	Alaska Packers' Ass'n, San Francisco, Cal.
Electric, Bark.	8,283	2	985.24	925.77	1898	Boston, Mass.	168.0	34.8	21.9	Pacific Packing & Nav. Co., Astoria, Or.
Electro, Str.	136,876	1	70.00	55.00	1896	Astoria, Or.	72.6	16.6	5.3	W. W. Babbidge, Astoria, Or.
Elena, Sch.	136,948	1	81.00	55.00	1901	Astoria, Or.	68.0	17.3	5.6	S. Elmore, Astoria, Or.
Elf, Str.	136,748	1	12.56	9.00	1898	Bruceport, Wash.	29.8	11.7	3.5	J. Reid, Astoria, Or.
El Hurd, Str.	136,596	1	37.97	28.00	1898	Astoria, Or.	47.3	9.5	4.5	G. H. George, Astoria, Or.
Elida, Sch.	136,412	1	89.00	63.00	1893	Astoria, Or.	67.3	14.8	6.2	D. R. Campbell & Sons, Tacoma, Wash.
Elisu Thompson, Str.	136,155	2	842.02	448.01	1888	Newcastle, Eng.	181.0	39.6	24.0	J. L. Anderson, Seattle, Wash.
Eliza, Launch	136,876	1	12.00	8.00	1901	Seattle, Wash.	41.3	7.7	2.5	I. Blomquist, Seattle, Wash.
Eliza Miller, Sch.	136,649	1	155.33	148.33	1893	San Fran., Cal.	103.5	24.3	8.6	H. Christensen, San Francisco, Cal.
Elizabeth, Str.	136,126	1	25.81	12.33	1893	San Fran., Cal.	58.5	11.0	6.7	Mrs. S. Hernandez, San Francisco, Cal.
Eliz. Greenwood, Sch.	136,339	1	31.57	30.01	1877	San Fran., Cal.	53.0	11.2	3.7	J. M. Date, Seattle, Wash.
Elk, Str.	136,536	1	9.72	7.72	1896	Ballard, Wash.	28.4	10.2	4.0	O. G. O'Brien, Tacoma, Wash.
Elk N. i. Str.	136,672	1	25.46	17.31	1898	Pouac, Wash.	54.0	12.1	7.2	H. M. Bertrop, Port Townsend, Wash.
Elia Rohlf, 2 Str.	136,672	1	40.97	31.10	1898	Pt. Townsend, Wn.	75.2	15.5	8.2	Alaska Packers' Ass'n, San Francisco, Cal.
Ellen, Str.	136,567	1	64.68	36.64	1889	Stockton, Cal.	75.5	20.2	4.15	E. W. Williams, San Francisco, Cal.
Ellen, Str.	136,740	1	90.58	74.89	1892	Vallejo, Cal.	78.5	20.2	7.4	A. Marcus, Eureka, Cal.
Ellen, Str.	136,843	1	57.70	38.00	1885	Fairhaven, Wash.	65.5	16.0	6.3	J. O'Connell, San Diego, Cal.
Ellen, Sch.	136,858	1	12.66	12.03	1885	San Fran., Cal.	36.9	15.5	5.5	P. Caduc, San Francisco, Cal.
Ellen W. Sch.	136,669	1	35.84	34.07	1898	Holly, Wash.	52.8	13.3	5.6	R. Wyatt, Port Townsend, Wash.
Ellida, Sch.	136,434	1	23.80	16.06	1894	Tacoma, Wash.	38.7	12.4	6.0	A. M. & N. Co., Portland, Or.
Elmore, Str.	136,491	1	483.92	467.60	1895	Portland, Or.	110.5	17.8	8.6	E. H. Hopkins, San Francisco, Cal.
Elm, Str.	136,385	1	102.99	73.48	1893	San Fran., Cal.	77.0	20.0	8.0	Alaska Packers' Ass'n, San Francisco, Cal.
Elm, Str.	136,031	1	65.73	37.69	1889	San Fran., Cal.	77.0	20.0	3.5	Chas. C. Wilson, San Francisco, Cal.
Elm, Str.	136,344	1	12.27	11.67	1892	Alameda, Cal.	36.5	14.5	3.9	..... Astoria, Or.
Elm, Str.	136,544	1	32.00	13.00	1896	Walla, Or.	37.5	12.2	3.2	..... Astoria, Or.
Elm, Str.	136,745	1	32.00	13.00	1899	Walla, Or.	43.0	22.4	3.2	..... Astoria, Or.
Elm, Str.	136,682	1	13.00	13.17	1898	Alameda, Cal.	43.0	14.0	4.75	J. A. Leonard, San Francisco, Cal.
Elm, Str.	136,625	1	18.15	15.35	1894	Alameda, Cal.	44.0	15.0	4.75	J. Knight, Port Townsend, Wash.
Elm, Str.	136,744	1	7.00	7.00	1899	Pt. Ludlow, Wn.	29.7	9.2	3.5	W. E. Mighell, San Francisco, Cal.
Elm, Str.	136,173	2	1,461.37	1,355.94	1875	Damariscetta, Me.	212.3	39.1	24.7	..... Seattle, Wash.
Elm, Str.	136,436	1	97.27	92.41	1873	Kennebunk, Me.	84.0	23.0	8.0	..... Skaguay, Alaska.
Elm, Str.	136,820	1	16.00	9.99	1890	Skaguay, Aka.	46.8	10.0	7.5	..... Wrangel, Alaska.
Elm, Str.	136,181	1	510.00	420.00	1891	Portland, Or.	154.0	30.0	4.1	E. K. Taylor, San Francisco, Cal.
Elm, Str.	136,181	1	21.69	20.61	1868	San Fran., Cal.	50.0	16.0	3.3	W. Bender, San Francisco, Cal.
Emilie Martin, Sch.	8,811	1	19.74	18.77	1872	San Fran., Cal.	48.5	17.8	3.3	..... Coos Bay, Or.
Emily, Str.	136,618	1	12.00	6.00	1897	Myrtle Pt., Or.	37.0	8.4	3.6	..... Coos Bay, Or.

TO THESPOT LYLE GUNS ARE DIRECTED

Your attention is also directed to our complete line of

SHIP'S GOODS

WINDLASSES	BLOCKS
CAPSTAINS	COPPER PAINT
SHIP LOGS	GALVANIZED GOODS
ETC., ETC., ETC.	

It is our mutual advantage to figure together

SEATTLE HARDWARE CO.

MAIN STORE: 819-821-823 FIRST AVE.

GOLD AND SILVER EMBROIDERY

THE GOLDSTEIN HAT CO.

L. KOHN, Mgr.

P. O. Box 597

Telephone
Black 8372



711 First Ave.
SEATTLE
WASH.

PRACTICAL HATTERS

NAVIGATION CAPS AND TRIMMINGS A SPECIALTY

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND REG	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Length	Brl.	Depth	
Emily F. Richard, Sch.	7,980	2	50.40	44.14	1897	San Fran., Cal.	63.5	22.3	5.0	J. Lavin, San Francisco, Cal.
E. F. Whitney, Sch.	135,468	2	1,317.77	1,207.47	1880	Boston, Mass.	193.5	37.8	23.5	W. G. Cooke, Sec'y, San Francisco, Cal.
Emily Lundt, Sch.	7,987	1	34.24	32.55	1861	San Fran., Cal.	58.3	20.7	4.5	J. Peterson, San Francisco, Cal.
Emily M. Str.	135,667	1	12.68	9.86	1898	Browsville, Me.	32.4	9.3	2.6	H. B. Meyer, Portland, Or.
Emily Reed, Ship.	135,472	1	1,564.68	1,406.85	1880	Waldsboro, Or.	215.0	40.6	24.1	G. Hind, San Francisco, Cal.
Emma, Sch.	135,254	1	47.55	45.20	1876	San Rafael, Cal.	59.0	22.5	4.7	P. N. Remillard, San Francisco, Cal.
Emma, Str.	135,550	1	18.56	18.56	1882	San Diego, Cal.	51.5	10.3	3.1	P. W. Jorres, San Diego, Cal.
Emma, Str.	8,655	1	87.87	76.98	1870	Stockton, Cal.	85.2	22.5	4.7	J. L. Davis, San Francisco, Cal.
Emma, Str.	25.33	1	24.07	23.80	1890	Benicia, Cal.	51.5	16.8	16.0	E. Benson, Sika, Alaska.
Emma, Str.	22.00	1	21.00	21.00	1892	Sholan, Aka.	47.0	14.7	6.2	E. Thompson, Juneau, Alaska.
Emma, Sch.	135,370	1	195.65	185.87	1882	San Fran., Cal.	113.0	31.5	8.7	F. Gee, San Francisco, Cal.
Emma Claudina, Tern	135,565	1	279.39	265.43	1875	Pl. Ludlow, Wn.	134.7	33.1	10.1	W. H. Fisher, San Francisco, Cal.
Emma Utter, Tern.	135,205	1	732.36	732.36	1873	Pl. Madison, Wn.	110.1	32.7	20.1	Pac. Pack. & Nav. Co., Port Townsend, Wash.
Empire, 2 Str.	8,973	2	18.00	12.00	1900	Monahan, Wash.	245.0	40.4	14.5	G. T. Klink, San Francisco, Cal.
Emogene, Str.	136,818	1	2,014.45	1,633.83	1888	San Fran., Cal.	52.6	11.6	4.2	W. J. Hall, San Francisco, Cal.
Enclinal, Str.	135,972	1	651.00	572.00	1897	North Bend, Or.	181.9	36.4	14.9	F. Sismier, San Francisco, Cal.
Encore, Bktn.	136,612	1	565.27	485.16	1897	Pl. Blak'y, Wn.	168.4	33.6	12.8	Mrs. M. Olson, San Francisco, Cal.
Endeavor, Sch.	8,005	1	17.30	16.44	1850	San Fran., Cal.	49.3	14.5	3.0	J. R. Bingham, Port Townsend, Wash.
Energy, Sch.	8,621	1	24.14	22.94	1870	Gallinas Ck, Cal.	50.5	18.6	3.65	St. Michael, Alaska.
Englewood, Str.	136,716	1	24.00	19.00	1898	St. Michael, Aka.	51.0	16.0	3.6	J. R. Bingham, Port Townsend, Wash.
Enigma, Str.	136,479	1	24.12	19.66	1894	Seattle, Wash.	48.8	14.0	5.6	San Francisco, Cal.
Enterprise, Ship.	136,801	1	2,145.00	2,069.00	1863	Ramsey, Scot.	318.8	37.4	26.6	W. Watson, San Francisco, Cal.
Enterprise, Str.	136,868	2	2,675.02	1,681.73	1882	Newcastle, Eng.	100.6	31.5	9.0	M. White, San Francisco, Cal.
Enterprise, Sch.	7,983	1	189.55	180.10	1863	Coos Bay, Or.	106.2	22.0	3.3	C. Mensinger, Portland, Or.
Enterprise, Str.	136,144	1	137.41	137.41	1890	Portland, Or.	53.0	12.9	5.6	L. B. Hastings, Port Townsend, Wash.
Enterprise, Str.	135,761	1	31.52	18.32	1884	Pl. Town'd, Wn.	56.5	17.7	3.1	Jas. Warren, Eureka, Cal.
Enterprise, Sch.	135,826	1	19.23	18.27	1884	Fairhaven, Wash.	81.0	22.0	8.0	Pac. Packing & Nav. Co., San Francisco, Cal.
Equator, Str.	135,991	1	76.06	42.00	1888	Benicia, Cal.	174.0	37.6	12.8	G. E. Billings, San Francisco, Cal.
Erie, Sch.	136,681	1	574.37	498.19	1898	Pl. Blak'y, Wn.	101.2	23.2	13.4	Pac. Pack. & Nav. Co., Port Townsend, Wash.
Ernest A. Hamill, Str	135,697	1	183.00	81.00	1898	Seattle, Wash.	92.0	24.0	13.0	O. R. & N. Co., Portland, Or.
Escort No. 2, Str.	135,697	1	145.84	72.92	1882	Coos Bay, Or.	92.0	24.0	13.0	C. A. Spero, San Francisco, Cal.
Espinosa, Sch.	135,246	1	19.07	18.13	1876	San Fran., Cal.	44.0	17.8	4.0	Pac. Pack. & Nav. Co., Port Townsend, Wash.
Estella, Sch.	136,284	1	48.42	39.00	1892	Stockton, Cal.	55.5	13.4	4.0	M. H. Sandstrom, Seattle, Wash.
Esther, Str.	135,853	1	32.23	20.22	1888	Tacoma, Wash.	53.2	13.0	4.2	H. N. Dalton, San Francisco, Cal.
Esther, Sch.	135,975	1	20.01	19.01	1888	San Fran., Cal.	42.2	15.5	4.0	H. H. Buhne, Eureka, Cal.
Esther Buhne, Tern	136,646	1	280.39	245.15	1887	Fairhaven, Cal.	134.6	34.0	9.0	C. W. Rich, Astoria, Or.
Ethel, Str.	136,668	1	12.00	8.00	1898	Warrenton, Or.	47.0	10.3	3.3	Pac. Packing & Nav. Co., Kadiak, Alaska.
Ethel, Sch.	135,960	1	32.00	31.00	1887	San Diego, Cal.	49.9	18.0	4.6	C. A. Hooper, San Francisco, Cal.
Ethel, Sch.	135,726	1	13.36	6.68	1883	San Fran., Cal.	43.9	12.5	5.3	Hunt, Hatch & Co., San Francisco, Cal.
Ethel, Zane, Sch.	136,191	1	498.00	407.62	1891	Eureka, Cal.	15.0	36.5	11.8	F. B. Jones, Portland, Or.
Etta B. 2 Sch.	136,503	1	28.76	27.33	1895	Benicia, Cal.	51.0	18.0	4.9	The Chas. Nelson Co., San Francisco, Cal.
Eugene, Str.	136,424	1	350.84	271.88	1894	Portland, Or.	140.0	28.0	5.8	
Eureka, Tern.	8,436	1	295.80	232.43	1868	Humboldt, B., Cal.	134.3	33.0	10.5	

J. FRIEDMAN & SON



FOR GOOD RELIABLE

CLOTHING,
FURNISHING
GOODS, HATS
AND SHOES

It would pay you to give us
a call before buying

Navy Blue Suits, in Double and Single Breasted a Specialty, and
a complete line of Stockton Flannel Underwear. : : : :

J. FRIEDMAN & SON

OPPOSITE HOTEL STEVENS

903 FIRST AVENUE

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Length	Breadth	Depth	
Eureka, Str.	136,808	1	485.50	312.55	1900	Wilmington, Cal.	142.5	26.0	12.0	Chas. P. Doe, San Francisco, Cal.
Eureka No. 2, Barge.	36,938	1	24.00		1900	Blaire, Wash.	55.0	14.0	3.5	E. J. White, Port Townsend, Wash.
Eureka, No. 3, Barge.	36,939	1	24.00		1900	Blaire, Wash.	55.0	14.9	3.5	E. J. White, Port Townsend, Wash.
Eureka No. 4, Barge.	36,940	1	9.00		1900	Blaire, Wash.	35.0	11.0	3.0	E. J. White, Port Townsend, Wash.
Eureka No. 5, Barge.	36,941	1	6.00		1900	Blaire, Wash.	35.0	11.3	3.0	E. J. White, Port Townsend, Wash.
Euterpe, Bark.	136,801	2	1,318.00	1,247.00	1900	Ramsay, Eng.	205.5	35.2	23.4	Alaska Packers' Ass'n, San Francisco, Cal.
Eva, Str.	136,459	1	130.00	66.00	1894	Portland, Or.	90.4	13.4	4.6	..... Coos Bay, Or.
Eva, Str.	136,460	1	32.87	35.04	1884	San Fran., Cal.	64.0	22.3	3.25	P. N. Remillard, San Francisco, Cal.
Eva, Str.	136,038	1	271.02	263.33	1880	Seabeck, Wash.	128.6	33.5	9.6	The Chas. Nelson Co., San Francisco, Cal.
Eva, Str.	135,465	1	36.85	35.02	1894	San Fran., Cal.	45.0	21.6	4.0	J. McAllister, San Francisco, Cal.
Eva, Str.	136,446	1	28.79	28.30	1894	Astoria, Or.	53.0	17.0	4.0	B. T. Tucker, Astoria, Or.
Eva, Str.	136,460	1	164.89	97.43	1882	Seattle, Wash.	100.0	19.2	7.2	Alaska S. S. Co., Port Townsend, Wash.
Evangel, Str.	135,567	1	40.29	38.28	1876	San Rafael, Cal.	58.5	23.0	4.0	A. Zipowski, San Francisco, Cal.
Everett Hayes, Sch.	136,278	1	39.00	37.00	1891	Benicia, Cal.	60.0	19.2	3.0	F. B. Wheeler, Seattle, Wash.
Evergreen, Str.	136,900	1	30.00	20.00	1901	Ballard, Wash.	48.4	13.6	5.6	..... Unalaska, Alaska.
Evie, 2 Sch.	136,211	1	82.34	78.23	1891	Alameda, Cal.	71.5	26.0	5.9	F. C. Jarvis, San Francisco, Cal.
Evie, Sch.	136,211	1	82.00	78.00	1891	Alameda, Cal.	71.5	26.0	5.9	..... San Francisco, Cal.
Evie J. Ray, Bark.	135,372	1	9.56	9.18	1878	Harrington, Me.	161.2	35.1	21.7	..... Portland, Or.
Excelsior, Sch.	8,534	1	43.33	41.17	1869	Vallejo, Cal.	58.9	22.0	4.75	J. B. Peterson, San Francisco, Cal.
Excelsior, Tern.	135,245	1	348.13	330.75	1876	Fairhaven, Cal.	139.0	32.0	11.0	D. Steffens, San Francisco, Cal.
Excelsior, 2 Str.	136,354	2	830.33	535.30	1893	Eureka, Cal.	175.5	35.0	13.5	Pac. Packing & Nav. Co., San Francisco, Cal.
Expansion, Sch.	136,783	1	545.00	512.00	1900	Alameda, Cal.	170.0	36.8	12.2	M. Sanders San Francisco, Cal.
Explorer, Str.	136,583	1	15.00	7.90	1885	Mare Is., Cal.	50.0	12.0	2.5	..... St. Michael, Alaska.
Express, Sch.	7,988	1	33.94	32.23	1850	Mattap'st, Mass.	60.0	17.2	4.4	C. S. Healy, San Francisco, Cal.
F. K. Gustin, Str.	121,071	1	718.68	409.06	1898	Seattle, Wash.	176.1	25.4	5.9	Robert Moran, Seattle, Wash.
F. M. Slade, Sch.	121,169	1	737.00	650.03	1900	Aberdeen, Wash.	189.8	39.6	14.3	S. E. Slade, San Francisco, Cal.
F. M. Smith, Str.	96,316	1	295.44	244.00	1895	Portland, Or.	125.0	26.7	6.8	Alaska Venture Co., San Francisco, Cal.
F. S. Redfield, Tern.	120,704	1	469.31	371.02	1887	Pt. Blak'ly, Wn.	159.6	37.4	11.4	C. C. Birkholm, San Francisco, Cal.
Fairfield, Sch.	9,594	1	28.67	27.26	1855	San Fran., Cal.	54.0	19.0	4.0	J. Erickson, San Francisco, Cal.
Fairfield, Str.	121,069	1	30.00	20.79	1898	Tacoma, Wash.	64.6	16.0	6.2	R. McCullough, Tacoma, Wash.
Fairhaven, Str.	120,762	2	319.38	240.57	1889	Tacoma, Wash.	130.2	26.5	6.2	The La Conner Trading Co., Seattle, Wash.
Falcon, Str.	120,632	1	117.30	59.03	1886	San Fran., Cal.	100.0	23.0	9.5	Milington Transp. Co., Los Angeles, Cal.
Falcon, Tern.	120,533	1	205.88	195.59	1882	Fairhaven, Cal.	125.8	29.0	9.0	Pacific Shipping Co., San Francisco, Cal.
Falls of Clyde, Ship.	121,138	1	1,809.68	1,748.11	1878	Glasgow, Scot.	266.1	40.0	23.5	Matson Navigation Co., San Francisco, Cal.
Famous, Str.	121,180	1	39.00	26.00	1901	Laconner, Wash.	53.5	16.0	5.7	S. F. Ginnell, Port Townsend, Wash.
Fann, Sch.	120,829	1	5.00		1891	San Diego, Cal.	29.5	11.0	3.0	J. S. Simas, San Diego, Cal.
Fannie, Str.	120,685	1	816.46	276.41	1887	Portland, Or.	142.5	28.4	6.6	D. Mackay, Portland, Or.
Fannie, Sch.	9,758	1	61.21	58.17	1868	San Fran., Cal.	66.0	24.5	5.0	G. W. Treethy, San Francisco, Cal.
Fannie Adele, Tern.	120,537	1	234.30	222.59	1883	San Fran., Cal.	115.5	30.8	9.5	A. Ristum, Honolulu, H. I.
Faunne L, Str.	121,130	1	9.00		1900	Seattle, Wash.	32.0	8.4	3.5	G. Caughrean, Seattle, Wash.
Fanny Dutard, Tern.	120,508	1	265.54	252.37	1882	San Fran., Cal.	126.5	31.0	10.8	R. Sudden, San Francisco, Cal.

SHIPPING AND
COMMISSION

MARINE +
INSURANCE

COOK & CO.

Steam Vessel Brokers

—AGENTS—

Western Steam Navigation Co.

American-Hawaiian Steamship Co.

Coles Seam Composition. Ontario Duck, Etc.

Yesler Wharf
SEATTLE

11th & Pacific Ave.
TACOMA

Phones { Green 136
 { Res. Red 6625

ESTABLISHED 1889

All Kinds of **HEAVY FORGING**

Acme Iron Forge Works

W. B. FRASER, Prop.

Well Equipped Shop

Two Steam Hammers

MACHINE AND SHIPSMITH

MANUFACTURER OF

Logging and Mill Tools, Chains
and All Sizes of Anchors. . . .

1111 Western Avenue,
Seattle, Washington

Sanitary Plumbing a Specialty

House Drainage Put in Properly

—Close Estimates on all Contracts—

D. B. SPELLMAN CO.

PRACTICAL PLUMBERS AND GAS FITTERS

STEAM AND HOT WATER HEATING

PHONES { Sunset, Black 1621
 { Independent 1307

215 Columbia St., SEATTLE, WASH.

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Length	Breadth	Depth	
Farallon, 2 Str.....	120,724	1	749.96	565.55	1888	San Fran., Cal.....	158.5	32.8	18.05	P. Costa, San Francisco, Cal.
Fargo, Sch.....	121,108	1	8.00	8.00	1899	Seattle, Wash.....	33.8	12.3	3.5	G. Whittman, Seattle, Wash.
Farragut, Str.....	120,814	1	47.06	23.53	1890	San Fran., Cal.....	66.0	15.0	7.0	P. Costa, San Francisco, Cal.
Favorite, Str.....	120,663	1	34.22	17.11	1886	Astoria, Or.....	59.0	13.0	6.0	Pac. Packing & Nav. Co., Tacoma, Wash.
Favorite, Str.....	120,459	4	14.57	7.29	1881	Chinoak, Or.....	42.4	11.4	4.8	Chicoit Packing Co., Pt. Townsend, Wash.
Favorite, Str.....	9,835	1	289.00	269.00	1868	Clatsop, Wash.....	132.0	23.2	9.8	....., San Francisco, Cal.
Favorite, Str.....	121,136	1	63.00	46.00	1890	Coquille, Or.....	72.4	15.6	4.4	J. T. Jones, Port Townsend, Wash.
Fawn, Str.....	121,132	1	11.00	7.00	1890	Decatur, Wash.....	37.0	10.4	4.3	Pacific Packing & Nav. Co., Coos Bay, Or.
Fawn, Str.....	120,917	1	10.00	5.91	1892	Mansfield, Or.....	38.5	10.5	6.4	J. A. Northway, Seattle, Wash.
Fawn, Str.....	121,026	1	8.69	5.31	1896	Seattle, Wash.....	29.2	10.9	3.8	G. Admussen, San Francisco, Cal.
Fearless, Sch.....	9,606	1	22.03	20.95	1867	Marin Co., Cal.....	42.0	17.6	12.6	T. D. Spreckels Bros. & Co., San Francisco.
Fearless, Str.....	121,098	1	167.30	85.49	1899	San Fran., Cal.....	99.6	22.7	9.3	F. Burley, Tacoma, Wash.
Fearless, Str.....	121,166	1	86.00	58.00	1890	Tacoma, Wash.....	76.0	21.3	14.5	E. K. Wood Lumber Co., San Francisco, Cal.
Fearless, Sch.....	121,159	1	736.14	653.51	1900	Hoquiam, Wash.....	182.5	38.5	17.0	F. P. S. Vind, San Francisco, Cal.
Felicity, 2 Sch.....	9,598	1	21.55	20.50	1851	San Fran., Cal.....	49.0	16.0	5.0	N. Anderson, San Francisco, Cal.
F. S. Thompson, B'k.....	120,167	2	531.29	480.01	1874	Setauket, N. Y.....	141.5	32.0	3.4	G. DeChanaud, Seattle, Wash.
Fidelity, Sch.....	120,620	1	5.00	5.00	1885	San Fran., Cal.....	64.0	23.0	3.5	D. E. Johnson, Port Townsend, Wash.
Fish Hawk, Sch.....	121,093	1	5.00	5.00	1885	Pt. Blakely, Wn.....	25.8	9.7	7.0	E. E. Libby, Port Townsend, Wash.
Fleetwing, Str.....	121,120	1	10.00	10.00	1889	Kingsdon, Wash.....	111.5	17.2	3.6	J. H. Roberts, San Francisco, Cal.
Fleetwing, Str.....	120,447	1	134.00	67.00	1881	Portland, Or.....	27.2	10.8	3.3	G. W. Meyers, Port Townsend, Wash.
Flirt, Str.....	121,183	1	8.00	6.00	1901	Ballard, Wash.....	40.7	10.7	5.0	C. Peterson, San Francisco, Cal.
Flora, Str.....	120,618	1	185.31	94.57	1885	Sacramento, Cal.....	141.0	30.5	26.0	W. E. Mighell, San Francisco, Cal.
Flora Brown, Str.....	121,167	1	80.44	83.94	1898	San Fran., Cal.....	101.0	22.0	4.3	Philip Caduc, San Francisco, Cal.
Florence, Sch.....	121,068	1	1,684.01	1,574.00	1877	Bath, Me.....	223.1	41.0	7.5	La Conner Trad. & Tans. Co., Tacoma, Wash.
Florence, Sub.....	120,312	2	43.56	41.40	1878	San Fran., Cal.....	58.0	22.0	4.9	....., Coos Bay, Or.
Flossie, Str.....	121,094	1	104.00	71.00	1898	Tacoma, Wash.....	72.7	18.5	15.0	M. Sanders, San Francisco, Cal.
Flyaway, Sch.....	121,174	1	12.00	12.00	1901	PL Town, Wn.....	38.7	11.9	13.6	R. Swayne, San Francisco, Cal.
Flyer, Str.....	27,641	1	35.00	25.00	1890	Porter, Or.....	63.3	15.2	6.0	G. P. Wetmore, San Francisco, Cal.
Flyer, Str.....	120,876	1	427.00	258.00	1891	Portland, Or.....	170.0	21.0	22.7	J. J. Loggie, Agent, San Francisco, Cal.
Forester, 4 Sch.....	121,165	1	658.28	621.50	1900	Alameda, Cal.....	184.0	38.6	8.3	J. P. Haul, San Francisco, Cal.
Forest Home, Sch.....	121,149	1	763.00	682.00	1900	Marshfield, Or.....	173.4	40.0	4.5	George Schmidt, San Francisco, Cal.
Fort Bragg, Str.....	121,113	1	317.77	275.51	1899	Port Bragg, Cal.....	155.0	35.0	5.5	J. Wilder, San Francisco, Cal.
Fort George, Ship.....	121,140	1	1,769.00	1,705.00	1884	Belfast, Ireland.....	251.2	40.0	3.3	R. S. Johnson, Port Townsend, Wash.
Fortuna, Sch.....	120,640	1	145.26	138.00	1886	Fairhaven, Cal.....	102.6	29.6	4.0	J. Wyman, Seattle, Wash.
Fortuna, Sch.....	9,596	1	22.00	21.00	1855	San Fran., Cal.....	51.0	14.4	10.2	D. Andrews, Seattle, Wash.
Four Sisters, Sch.....	120,995	1	38.95	31.54	1895	Benicia, Cal.....	58.5	20.6	3.7	....., San Francisco, Cal.
Fox, Str.....	121,198	1	49.95	47.47	1861	San Fran., Cal.....	60.0	22.0	4.5	....., San Francisco, Cal.
Fourth of July, Sch.....	9,597	1	20.00	13.00	1891	Edison, Wash.....	29.3	9.5	3.3	....., San Francisco, Cal.
Fram, Sch.....	121,055	1	5.71	5.71	1897	Gig Har., Wash.....	31.4	12.2	3.7	....., San Francisco, Cal.
F. E. M. Bernard, Sch.....	120,942	1	24.00	23.00	1865	San Fran., Cal.....	54.0	20.3	4.0	....., Seattle, Wash.
Frances, Sch.....	120,942	1	12.14	11.54	1893	Gig Har., Wash.....	31.4	12.2	3.7	....., Seattle, Wash.
Francis, Alice, Sch.....	120,455	1	181.83	125.26	1881	St. Helens, Or.....	95.3	24.0	10.2	....., Seattle, Wash.

SEATTLE OFFICE, FOOT KING ST.

N. Poston, Supt. Coal Agencies

San Francisco Office, 401 California St.

W. R. Young, Supt. Coal Agencies

PACIFIC COAST CO.

MINERS OF THE

FRANKLIN
STEAM COAL

BUNKERS:

SEATTLE, King Street

SAN FRANCISCO, Beale St. Wharf

PORTLAND, OR., Foot Quimby St.

JUNEAU, ALASKA

SKAGUAY, ALASKA

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND REG	Official No	No. Dks	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Length	Breadth	Depth	
Francis Cutting, Str.	120,747	1	91.08	59.00	1889	San Fran., Cal.	80.5	20.5	7.6	Alaska Packers' Ass'n, San Francisco, Cal.
Frank Lawrence, Sch.	120,633	1	57.64	54.76	1886	Benicia, Cal.	63.0	24.0	4.5	C. A. Nelson, San Francisco, Cal.
Frank Sanborn, Sch.	120,836	1	8.00	8.00	1891	Astoria, Or.	36.3	12.2	3.7	....., Astoria, Or.
Frank W. Howe, Sch.	120,830	1	573.00	483.00	1891	Boston, Mass.	158.2	25.0	14.0	N. C. String, Port Townsend, Wash.
Fred E. Sanders, Tern	120,690	1	463.47	389.73	1887	Pt. Blakely, Wn.	157.0	37.1	11.3	Geo. E. Billings, San Francisco, Cal.
Fred K. Billings, Str.	120,761	1	749.50	677.74	1889	Pasco, Wash.	200.0	36.9	6.0	C. M. Easterday, Portland, Or.
Fred J. Wood, Sch.	121,109	1	631.00	601.00	1899	Hoguan, Wash.	181.0	38.1	14.0	E. K. Wood Lumber Co., San Francisco, Cal.
Free Trade, Sch.	9,848	1	91.72	87.17	1869	San Fran., Cal.	86.5	26.4	6.2	A. L. Stone, San Francisco, Cal.
Frela, Sch.	121,023	1	12.54	12.54	1896	Tacoma, Wash.	43.5	13.3	5.0	H. Koch, San Diego, Cal.
Fremont, Bktn.	9,520	1	345.57	328.31	1850	Philadelphia, Pa.	155.0	36.0	12.0	L. E. Noonan, San Francisco, Cal.
Fresno, Bktn.	120,125	2	1,244.89	1,149.41	1874	Bath, Me.	192.7	38.6	23.1	C. Walker, Port Townsend, Wash.
Frolic, Str.	120,084	1	32.29	16.15	1873	Stockton, Cal.	65.7	18.2	6.2	C. A. Warren, San Francisco, Cal.
Frolic, Sch.	121,128	1	20.00	14.48	1878	San Fran., Cal.	44.0	16.3	5.5	C. E. Anderson, San Francisco, Cal.
Fruitvale, Str.	121,003	1	47.32	32.18	1895	San Fran., Cal.	77.0	14.0	4.0	J. C. Doherty, San Francisco, Cal.
Fruto, Str.	121,111	1	429.12	392.22	1899	Oakland, Cal.	175.0	34.0	5.6	Southern Pacific Co., San Francisco, Cal.
Fuller, Barge	37,619	1	136.00	123.00	1890	Portland, Or.	108.0	32.5	7.7	D. J. Moore, Portland, Or.
Fulton, Str.	121,064	1	380.63	285.00	1898	Fairhaven, Wash.	152.7	33.5	11.45	Geo. D. Gray, San Francisco, Cal.
Fulton, Str.	121,086	1	66.00	33.00	1898	St. Michael, Aka.	65.0	16.0	4.0	....., St. Michael, Alaska.
G. C. Lindauer, Barge	39,775	1	453.00	453.00	1901	Aberdeen, Wash.	158.1	36.1	11.5	H. Wilson, San Francisco, Cal.
G. M. Walker, Str.	86,386	1	154.32	125.91	1897	Portland, Or.	84.7	20.4	4.2	Chas. T. Kamm, Portland, Or.
G. Theckla, Sch.	86,375	1	22.20	22.20	1896	Pt. Madison, Wn.	46.3	14.8	8.4	J. T. Smith, Seattle, Wash.
G. W. McNear, Sch.	86,573	1	99.00	88.00	1901	San Fran., Cal.	68.0	27.5	5.4	H. Larson, San Francisco, Cal.
G. W. Shaver, 1 Str.	86,041	1	313.10	276.15	1889	Portland, Or.	139.6	28.2	5.4	J. W. Shaver, Portland, Or.
G. W. Watson, Tern	86,096	1	452.78	397.29	1890	Fairhaven, Cal.	150.0	36.0	12.0	J. Rolph, Jr., San Francisco, Cal.
Galilee, Bgn	86,131	1	354.07	328.67	1891	Benicia, Cal.	132.5	33.5	12.7	M. Turner, San Francisco, Cal.
Gambel, Sch.	86,576	1	726.00	626.00	1901	Portland, Or.	183.7	38.0	13.8	C. Walker, Port Townsend, Wash.
Gamblecock, Str.	86,418	1	772.88	658.27	1898	Pt. Blakely, Wn.	178.2	38.0	7.9	F. B. Jones, Portland, Or.
Garden City, Str.	85,592	1	1,080.70	730.42	1879	San Fran., Cal.	208.0	37.0	13.6	G. F. Klink, San Francisco, Cal.
Gardiner City, Bktn.	86,076	1	475.15	451.40	1889	North Bend, Or.	169.0	39.0	12.0	R. Swayne, San Francisco, Cal.
Garland, Str.	86,094	1	166.61	88.00	1890	Pt. Town'd, Wn.	97.2	18.7	7.1	Puget Sound Nav. Co., Port Townsend, Wash.
Garonne, Str.	86,504	3	3,945.00	2,319.00	1871	Glasgow, Scot.	371.0	41.4	20.4	F. Waterhouse & Co., Seattle, Wash.
Gasco, Gas S.	86,544	1	8.00	5.00	1900	Marshfield, Or.	38.0	9.0	3.0	John Olsen, San Francisco, Cal.
Gaslight, Sch.	86,544	1	39.40	37.46	1874	San Fran., Cal.	55.5	22.3	4.4	J. Jensen, San Francisco, Cal.
Gatherer, Bktn.	85,349	2	1,509.21	1,377.32	1874	Bath, Me.	208.1	40.2	24.3	S. F. Whaling Co., San Francisco, Cal.
Gayhead, Bktn.	85,494	2	2,855.29	2,552.03	1877	Mattapoisett, Me.	110.0	26.9	15.1	Bartsch & Thompkins, Kirkland, Wash.
Gazelle, Str.	86,419	1	75.19	50.46	1898	Tacoma, Wash.	71.6	16.4	6.4	R. Epler, Tacoma, Wash.
Gem, Sch.	86,433	1	11.00	11.00	1898	Parkersburg, Or.	36.0	10.0	3.0	O. J. Olsen, San Francisco, Cal.
Gem, Sch.	85,887	1	120.49	114.47	1885	Parkersburg, Or.	106.9	33.0	7.0	W. Olsen, San Francisco, Cal.
Gen. Banning, Sch.	85,778	1	177.33	168.58	1883	Narano, Cal.	112.5	30.0	8.4	....., Narano, Cal.
Gen. Canby, Str.	85,414	1	88.00	44.00	1875	S. Bend, Wn.	85.3	19.0	8.5	....., Kodiak, Alaska.
Gen. Fairchild, Bktn.	85,315	2	1,427.52	1,427.25	1874	Freeport, Me.	203.4	38.8	24.3	Wm. Mighell, San Francisco, Cal.

RAILS

LOCOMOTIVES

Railway and Steel Supply Co.

**63-65 STARR-BOYD BUILDING
WAREHOUSE 810 FIRST AVENUE SOUTH**

SEATTLE, WASH.

RAILWAY EQUIPMENT

RAILWAY SUPPLIES

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. D.Ks.	Tonnage		When Built	Where Built	Dimensions		Managing Owner and Home Port
			Gross	Net			Lgth	B'ly	
Gen. Friable, Str.	86,541	1	544.82	340.56	1900	N. Whatcom, Wn	160.9	29.3	Z. Hatch, San Francisco, Cal.
Gen. Garfield, Str.	85,677	2	21.00	18.11	1881	Rainier, Or.	55.6	14.0	J. G. Pacey, Seattle, Wash.
Gen. Siglin, Str.	86,298	1	85.00	10.00	1894	Marshall, Or.	80.0	23.0	M. Turner, San Francisco, Cal.
Genova, Bkn.	86,230	1	495.66	451.54	1892	Benicia, Cal.	150.0	36.3	J. Greig, Sec'y, San Francisco, Cal.
George Curtis, Ship.	85,668	1	1,837.82	1,680.64	1884	Waldboro, Me.	240.7	42.4	Jas. Tyson, San Francisco, Cal.
Geo. C Perkins, Bkn	85,650	1	338.59	339.18	1880	Coos Bay, Or.	142.0	33.5	Jas. Connor Trading Co., Pt. Townsend, Wash.
Geo. E. Starr, Str.	85,610	1	472.68	338.63	1879	Seattle, Wash.	148.2	38.0	N. Alaska Salmon Co., San Francisco, Cal.
Geo. F. Haller, Str.	86,555	1	149.00	81.00	1901	Alameda, Cal.	101.0	21.5	Pacific Coast Oil Co., San Francisco, Cal.
George H. Ross, Sch.	85,745	1	32.00	30.00	1882	San Fran., Cal.	56.0	18.0	Nehalem, Trans. Co., Nehalem, Or.
Geo. Loomis, Str.	86,340	1	631.05	401.93	1895	Portland, Or.	175.0	27.4	J. Chumonth, Port Townsend, Wash.
Geo. R. Washburn, Str.	86,545	1	99.00	59.00	1900	Port Madison, Wash.	61.2	18.4	P. Pearson, Seattle, Wash.
Geo. R. White, Sch.	86,084	1	37.60	35.72	1890	Tacoma, Wash.	66.3	15.6	P. C. Hansen, San Francisco, Cal.
George T. Str.	86,470	1	42.00	28.00	1899	San Fran., Cal.	50.0	20.0	O. R. & N. Co., Portland, Or.
Geo. Washington, Sch.	10,736	1	23.69	22.52	1863	Chesler, Penn.	250.0	38.5	J. H. Allen, Port Townsend, Wash.
Geo. W. Elder, 2 Str.	85,321	1	1,769.59	1,221.58	1874	Irontdale, Wash.	57.2	18.8	San Francisco, Cal.
Geo. W. Prescott, Sch.	86,271	1	41.07	39.02	1893	San Fran., Cal.	71.0	21.3	R. H. Robbins, San Pedro, Cal.
Georgia Woods, Sch.	10,562	1	60.00	57.00	1868	Fairhaven, Cal.	58.5	18.0	Alaska Packers' Ass'n, San Francisco, Cal.
Georgia, Bkn.	86,592	1	998.00	870.00	1901	Benicia, Cal.	208.7	39.1	A. L. Nash, Port Townsend, Wash.
Gerald C. Sch.	86,339	1	31.33	24.85	1895	Bath, Me.	76.5	20.0	G. C. Perkins, San Francisco, Cal.
Gerrard C. Toby, Bk.	85,542	1	1,459.18	1,450.77	1878	San Fran., Cal.	38.5	11.9	Simpson Lumber Co., San Francisco, Cal.
Gerrard Story, 2 Str.	86,023	1	72.38	36.69	1889	N. Whatcom, Wn	102.0	28.3	J. Tyson, San Francisco, Cal.
Gerrude, Str.	86,423	1	17.00	11.78	1898	San Fran., Cal.	151.0	36.0	J. H. Collins, San Francisco, Cal.
Gipsy, 2 Str.	10,982	1	293.80	215.32	1868	Houquian, Wash.	142.2	34.0	Tacoma & Pt. Orchard N. Co., Tacoma, Wash.
Gleaner, Bkn.	85,196	1	413.35	392.68	1892	Marshall, Or.	125.8	30.6	A. E. Hall, Seattle, Wash.
Gleaner, Str.	85,798	1	127.38	121.02	1882	Fairhaven, Cal.	80.5	19.0	M. A. Gould, San Francisco, Cal.
Glendale, Tern.	85,988	1	266.12	281.32	1888	Tacoma, Wash.	140.0	30.0	A. W. Scott, San Francisco, Cal.
Glenn, Str.	86,413	1	360.66	184.70	1898	Seattle, Wash.	104.0	19.5	Pac. Packing & Nav. Co., San Francisco, Cal.
Globe, Str.	85,782	1	109.95	178.54	1883	San Fran., Cal.	64.0	23.0	J. W. Williams, Portland, Or.
Globe, Str.	85,816	1	334.75	295.32	1887	San Fran., Cal.	185.1	38.5	J. J. Smith, San Francisco, Cal.
Golden, Frigate, Sch.	10,907	1	47.67	42.35	1883	San Fran., Cal.	119.0	32.6	A. M. Simpson, San Francisco, Cal.
Golden Gate, 2 Str.	86,164	1	119.00	56.01	1891	San Fran., Cal.	77.0	18.6	J. McClelland, Sec'y, San Francisco, Cal.
Gold Gatherer, Str.	86,173	1	40.00	40.00	1889	Whitney, B. Ida.	36.8	12.8	A. L. Piper, San Francisco, Cal.
Golden Shore, 4 Sch.	86,046	1	699.07	626.09	1889	Pt. Blakely, Wn.	159.5	34.0	R. Dollar, San Francisco, Cal.
Good Hope, Sch.	85,599	1	198.50	188.08	1872	Coos Bay, Or.	100.0	26.0	Towle Thurston Tugboat Co., Pt. Townsend.
Godama, Sch.	85,191	1	80.94	60.00	1892	Astoria, Or.	58.0	24.7	G. Scott, San Francisco, Cal.
Gov. Irwin, Str.	85,526	1	9.00	9.00	1892	San Fran., Cal.	130.0	31.5	C. L. Griffith, Sec'y, San Francisco, Cal.
Grace, Bkn.	86,082	1	194.84	160.65	1892	San Fran., Cal.	65.0	23.3	T. Collie, San Francisco, Cal.
Grace Barton, Str.	86,482	1	425.90	289.00	1898	Seattle, Wash.			
Grace Thurston, Str.	86,475	1	32.40	33.00	1893	San Fran., Cal.			
Grampus, 3 Str.	85,215	1	326.19	250.73	1883	San Fran., Cal.			
Granger, Sch.	85,430	1	58.65	55.73	1875	Hickey Lodge, Or.			



E have just completed the largest and most up-to-date plant on the Coast and are prepared to do all kinds of Steamboat machinery work. We carry a full and complete line of supplies at lowest prices. All work done under the personal supervision of, Mr. Jas. H. Perkins.

ENGINES, BOILERS, PUMPS AND PUMPING MACHINERY

S U P P L I E S O F E V E R Y K I N D



REPAIRS PROMPTLY ATTENDED TO

James H. Perkins Manf'g Co.

1245-51 Railroad Ave. So.

SEATTLE, WASH.

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. De.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Lt. h.	Brt h.	Depth	
Grayling, Str.....	32,068	1	28.55	19.41	1888	Lake Bay, Wash.	58.5	13.8	6.0	Pac. Pack. & Nav. Co., Pt. Townsend, Wash.
Greenwood, 2 Str....	85,221	1	195.54	144.25	1886	San Fran., Cal.	114.0	31.0	9.0	L. E. White Lumber Co., San Francisco, Cal.
Grey Eagle, Str.....	86,300	1	218.72	162.88	1894	Newberg, Or....	110.5	21.0	4.7	Chas. K. Spaulding, Newberg, Or.
Greyhound, Str.....	86,100	1	180.67	166.69	1890	Portland, Or....	139.3	18.5	6.4	Seattle, Tacoma & Everett N. Co., Seattle.
Griffin, Str.....	86,473	1	11.00	5.00	1899	Friday, Har., Wn	46.0	11.2	4.5	F. Waterhouse, Port Townsend, Wash.
Gualala, Str.....	86,581	1	225.00	158.00	1901	Alameda, Cal.	123.0	30.0	9.5	R. Tyson, San Francisco, Cal.
Guile, Sch.....	85,970	1	144.00	137.00	1887	San Fran., Cal.	126.0	26.7	7.4	Pac. Packing & Nav. Co., San Francisco, Cal.
Guy C. Ross, Bark....	85,602	1	1,572.00	1,430.00	1879	Bath Me., U. S.	213.9	39.8	24.0	Pacific Pack. & Nav. Co., Wrangel, Alaska.
Gypsy Queen, Str....	86,441	1	107.00	58.00	1898	Cotwood, I., Aka.	61.8	21.6	2.6	.....
H. Bendel, Sch.....	95,295	1	73.70	70.04	1874	San Fran., Cal.	71.5	25.6	5.5	J. L. Ettlinger, San Francisco, Cal.
H. C. Wright, Tern....	95,291	1	290.45	275.93	1889	Fairhaven, Cal.	130.0	31.0	10.0	The Chas. Nelson Co., San Francisco, Cal.
H. D. Bendixsen, Sch.	96,393	1	641.76	570.85	1898	Fairhaven, Cal.	173.5	37.4	13.5	J. H. Bruce, San Francisco, Cal.
H. Eppinger, Sch.....	96,571	1	96.00	89.00	1901	San Fran., Cal.	80.0	27.5	6.2	J. Erikson, San Francisco, Cal.
H. E. Wright, Str....	96,475	1	562.75	513.91	1899	Stockton, Cal.	168.0	38.0	6.5	Farm. & Merch. T. Co., San Francisco, Cal.
H. H. Barling, Str....	96,406	1	609.83	582.92	1898	San Fran., Cal.	165.6	36.6	6.5	.....
H. H. Buhrne, Str....	11,999	1	97.00	97.00	1869	San Fran., Cal.	98.5	23.0	10.9	Humboldt Lumber M. A., Eureka, Cal.
H. J. Corcoran, Str....	96,323	1	682.27	569.00	1898	Stockton, Cal.	209.5	32.0	8.5	C. A. Doty, Port Townsend, Wash.
Hal, Str.....	95,517	1	7.00	5.00	1900	Ranier, Or....	36.0	8.5	3.5	C. A. Doty, Port Townsend, Wash.
Haleyton, Tern.....	95,668	1	293.57	278.90	1881	Eureka, Cal.	133.2	32.0	10.0	J. Masterson, San Francisco, Cal.
Haleyton, Sch.....	96,341	1	12.19	12.19	1896	Seattle, Wash....	29.7	12.4	8.2	E. M. Carr, Seattle, Wash.
Hammond, Str.....	96,582	1	16.00	11.00	1901	Alameda, Cal.	17.4	36.0	13.0	.....
Hannah, Str.....	96,538	1	668.00	502.00	1901	Alameda, Cal.	222.8	42.0	6.2	.....
Harbor Queen, Str....	96,428	1	1,211.00	727.00	1898	Unalaska, Aka.	232.8	42.0	6.2	P. Willson, Port Townsend, Wash.
Harriet G. Brig.....	95,504	1	161.00	108.00	1898	Unalaska, Aka.	130.2	28.0	10.5	E. Pond, San Francisco, Cal.
Harriet G. Brig.....	95,504	1	252.55	188.17	1878	Norfolk, Va....	130.2	28.0	10.5	A. Davies, Seattle, Wash.
Harry, Str.....	96,437	1	13.00	9.00	1899	W. Seattle, Wn.	38.8	9.0	3.6	A. L. Piper, Seattle, Wash.
Harry, Sch.....	95,426	1	24.63	23.41	1876	San Fran., Cal.	52.0	19.0	3.5	G. Plummer, San Francisco, Cal.
Harry Morse, Bark....	95,101	1	1,365.02	1,241.78	1871	Bath, Me.....	198.2	37.5	23.8	E. Stevenson, Seattle, Wash.
Harry S. Str.....	96,373	1	20.48	13.93	1887	Seattle, Wash....	44.1	14.0	5.7	Pac. Packing & Nav. Co., San Francisco, Cal.
Harvester, Bark.....	95,084	1	754.04	716.34	1871	New York, Mass.	156.6	32.7	19.9	Thos. Begley & N. Co., San Francisco, Cal.
Harvest Queen, Sch...	11,674	1	32.44	30.82	1861	San Fran., Cal.	56.0	21.2	4.0	O. R. & N. Co., Portland, Or.
Harvest Queen, Str....	96,489	1	733.00	438.00	1900	Portland, Or....	181.0	39.8	9.0	O. R. & N. Co., Portland, Or.
Hassalo, Str.....	96,440	1	679.00	420.00	1899	Portland, Or....	181.3	36.8	8.4	C. F. Beebe, Portland, Or.
Hattie, Gasoline.....	96,353	1	9.05	6.15	1897	Warrenton, Or.	40.2	9.3	3.5	J. Weatherwax, Port Townsend, Wash.
Hattie Bell, Str.....	96,182	1	207.84	129.49	1892	Portland, Or....	110.0	21.0	4.5	Alaska Packers' Ass'n, San Francisco, Cal.
Hattie Gage, 2 Str....	95,997	1	80.82	42.50	1889	Pontiac, Wash....	76.5	20.0	8.0	The Hansen Trans. Co., Seattle, Wash.
Hattie Hansen, Str....	96,233	1	113.55	77.00	1893	Pontiac, Wash....	71.0	15.7	6.6	.....
Hawaii, Str.....	157,296	1	301.00	277.09	1888	San Fran., Cal.	139.9	32.0	10.2	The Chas. Nelson Co., San Francisco, Cal.
Haydn Brown, Bark....	95,434	2	864.74	821.00	1876	New York, Mass.	162.0	34.9	19.8	R. M. Seeler, Port Townsend, Wash.
Hazel, Str.....	96,371	1	54.57	35.24	1898	N. Whatcom, Wn.	52.0	14.5	6.9	C. Frese, Portland, Or.
Hazel, Str.....	96,442	1	15.00	10.00	1899	Portland, Or....	44.5	12.0	4.6	.....

THE PACIFIC COAST CO.

OWNING AND OPERATING THE

PACIFIC COAST STEAMSHIP COMPANY

Operating Twenty Steamers on the Pacific Coast

**THE ONLY COMPANY MAINTAINING
REGULAR SERVICE THROUGHOUT THE YEAR**

From Skagway, Alaska, to Mazatlan, Mexico, can be reached by the Pacific Coast Steamship Company's

Modern, Safe, Fast and Luxurious Steamships

Years of experience in the Pacific Coast travel and a larger fleet of Steamers than that of any other company have gained for this line the reputation for goodness by which all other steamship lines are judged.

Descriptive Pamphlets of Rates, Sailings
and Service Sent on Application

C. W. MILLER, Ass't Gen. Agt., Ocean Dock, SEATTLE

SAN FRANCISCO, CAL., OFFICE, 10 MARKET ST.

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dks	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Length	Breadth	Depth	
Heda, Ship.....	95,486	1	1,529.24	1,435.46	1877	Bath Me., Cal.	210.5	40.2	24.3	A. Anderson, San Francisco, Cal.
Hedla, Sch.....	95,291	1	46.25	43.94	1871	San Fran., Cal.	42.5	22.0	4.65	Thompson, San Francisco, Cal.
Hector, Str.....	95,214	1	17.87	9.42	1897	Roche Har., Wn.	41.7	9.0	3.0	J. Holden, Port Townsend, Wash.
Helen, Sch.....	96,592	1	15.87	9.02	1901	Sausalito, Cal.	37.0	15.0	5.5	J. Lockhart, San Francisco, Cal.
Helen, Sch.....	96,165	1	27.28	27.82	1892	Seattle, Wash.	45.6	17.2	6.5	J. Bates, Seattle, Wash.
Helene, Sch.....	96,480	1	927.02	828.06	1893	Pt. Blakely, Wn.	202.0	41.2	15.9	J. A. Campbell, Port Townsend, Wash.
Helene, Sch.....	96,500	1	618.00	592.00	1897	San Fran., Cal.	170.6	30.8	14.8	W. J. S. Co., Ltd., Honolulu, H. I.
Helena, Sch.....	96,500	1	13.00	8.97	1891	San Ben., Wash.	38.2	12.7	3.8	F. C. Barnes,
Helena, Sch.....	96,504	1	13.19	8.46	1894	Warrenton, Or.	37.2	19.9	3.6	G. W. Barnes, Astoria, Or.
Henry Scott, Str.....	96,364	1	37.13	27.14	1898	San Fran., Cal.	71.0	18.0	7.0	A. Paladino, San Francisco, Cal.
Henrietta, Sch.....	96,382	1	57.00	47.62	1895	Anacortes, Wash.	51.5	12.5	8.1	G. Piper, Seattle, Wash.
Henrietta M. 2 Sch.....	96,306	1	2,583.00	2,442.00	1883	Bath, Me.,	267.9	45.0	4.9	Wm. Mulcher, San Francisco, Cal.
Henry E. Hyde, Ship.....	95,828	1	1,552.00	1,452.00	1883	Bath, Me.,	267.9	45.0	4.9	W. E. Mighell, San Francisco, Cal.
Henry Villard, Ship.....	96,410	1	412.94	403.47	1879	Aberdeen, Wash.	127.8	37.1	11.3	G. Hind, San Francisco, Cal.
Henry Wilson, Sch.....	95,524	1	293.95	267.87	1878	Stockton, Cal.	127.8	37.1	11.3	H. Wilson, San Francisco, Cal.
Herald, Str.....	95,934	1	37.00	17.00	1888	Portland, Or.	58.3	14.5	6.7	E. C. Wright, San Francisco, Cal.
Hercules, Str.....	96,443	1	560.00	293.00	1889	Portland, Or.	58.3	14.5	6.7	H. J. Biddle, Columbia Grv., Wash.
Hercules, Sch.....	95,528	1	47.35	45.00	1878	San Fran., Cal.	57.0	23.0	4.7	Daniel Thompson, San Francisco, Cal.
Hercules, Sch.....	95,534	1	96.71	48.36	1878	San Fran., Cal.	57.0	23.0	4.7	Ernest Heldmaier, Los Angeles, Cal.
Hercules, Gasoline.....	96,332	1	12.45	8.46	1897	Warrenton, Or.	48.9	10.3	3.2	R. Soule, Hoquiam, Wash.
Herman, Sch.....	96,031	1	105.75	100.45	1890	Benicia, Cal.	32.5	10.3	3.2	N. American Com. Co., San Francisco, Cal.
Herman, Str.....	96,398	1	456.57	387.97	1898	San Fran., Cal.	155.9	26.9	4.6	A. Fagerstrom, San Francisco, Cal.
Hermine Blum, Sch.....	95,917	1	52.71	50.08	1887	San Fran., Cal.	50.0	23.3	4.75	Wilmington, San Francisco, Cal.
Hermosa, Str.....	95,982	1	454.81	390.56	1889	San Fran., Cal.	133.5	24.8	11.8	Wilmington, Trans. Co., Los Angeles, Cal.
Hermosa, Str.....	96,579	1	15.00	10.00	1901	Olympia, Wash.	36.8	11.0	3.6	A. L. Chase, Seattle, Wash.
Hero, Sch.....	11,689	1	14.84	14.11	1850	San Fran., Cal.	41.0	14.5	3.6	Geo. Walters, San Francisco, Cal.
Hesper, Bark.....	95,717	1	695.41	602.71	1882	Pt. Blakely, Wn.	120.0	38.4	14.8	W. G. Hall, San Francisco, Cal.
Hesper, Str.....	96,518	1	8.00	6.00	1897	Kalama, Wash.	38.0	9.8	3.7	J. Burke, Cathlamet, Wash.
Hettie B, Str.....	96,278	1	27.10	26.09	1894	San Fran., Cal.	42.5	12.0	4.5	J. A. McNear, St. Michael, Alaska.
Hiawatha, Sch.....	96,199	1	19.57	9.79	1892	Benicia, Cal.	40.0	13.0	6.0	C. Goodall, San Francisco, Cal.
Hiawatha, Sch.....	95,485	1	13.71	10.85	1876	San Fran., Cal.	41.0	12.0	3.8	B. Gura, San Francisco, Cal.
Highland, Queen, Sch.....	96,431	1	17.00	17.00	1898	Ballard, Wash.	44.8	14.8	13.0	R. M. Seeley, Port Townsend, Wash.
Hilda, Str.....	96,545	1	38.00	6.00	1901	Sunderland, Eng.	53.0	14.3	5.0	E. Pond, San Francisco, Cal.
Himalaya, Bark.....	96,501	1	1,027.15	976.80	1863	Alameda, Or.	190.2	33.0	20.2	J. J. Moore, San Francisco, Cal.
Homer, Str.....	96,142	1	501.17	331.04	1891	Alameda, Cal.	146.0	33.8	17.0	Geo. Fritch, San Francisco, Cal.
Honolulu, 4 Sch.....	96,418	1	564.00	520.00	1898	Benicia, Cal.	162.5	36.8	12.85	J. Rolph, Jr., San Francisco, Cal.
Hong Kong Sch.....	96,202	1	14.61	13.88	1884	Roseville, Or.	52.0	17.0	4.0	S. M. Neely, San Diego, Cal.
Honolulu, Sch.....	96,502	1	982.00	958.00	1896	Pt. Glasgow, Scot.	196.6	42.8	17.1	E. E. Kellogg, Portland, Or.
Hoo Hoo, Str.....	96,318	1	20.72	16.19	1895	Seattle, Or.	54.0	9.6	3.2	White Crest Canning Co., Pt. Townsend.
Hoosier Boy, Str.....	96,409	1	31.75	21.59	1898	Portland, Wash.	54.0	11.6	4.3	....., Kakiak, Alaska.
Hope, Sch.....	96,182	1	7.59	7.22	1892	Radiak, Aka.	33.8	10.0	3.5	....., Wrangel, Alaska.
Hope, Str.....	96,452	1	9.00	6.00	1899	Wrangel, Aka.	37.7	12.0	4.5	....., Wrangel, Alaska.

W. L. McCABE

E. S. HAMILTON

McCABE & HAMILTON

STEVEDORES

Puget Sound

McCABE, HAMILTON & RENNY CO., Ltd., Honolulu, T. H.

Ship's Letters in our Care Promptly Delivered

— N. P. WHARF —

TACOMA

TELEPHONE MAIN 175



RAILROAD AVE. and MARION ST.

SEATTLE, WASH.

TELEPHONE MAIN 357

Washington Iron Works Co.

SEATTLE, WASH.

HOISTING ENGINES

OF ALL KINDS A SPECIALTY FOR

Logging, Mining, Contractors' Use, Pile Driving,
Railroad Purposes, etc., etc.

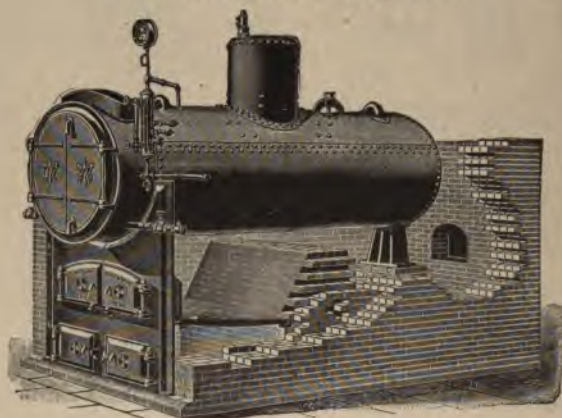
All our Engines are built to gauges and templates on the duplicate part system. They are best in design, most durable and economical. We invite correspondence.

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Decks	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Length	Breadth	Depth	
Hope, Sch.....	96,481	1	31.00	31.00	1899	Burton, Wash....	55.6	21.0	4.5	W. Green, Port Townsend, Wash.
Hogiam, Sch.....	96,404	1	41.85	20.88	1898	Hogiam, Wash....	52.3	15.0	5.2	R. F. Lytle, Port Townsend, Wash.
H. Templeton, Sch...	95,249	1	42.90	40.76	1873	San Fran., Cal....	58.0	22.2	4.9	J. Erikson, San Francisco, Cal.
Hornet, Str.....	96,056	1	15.22	7.61	1890	Pt. Madison, Wn....	36.6	12.2	4.3	W. R. Chesley, Seattle, Wash.
Howard, Sch.....	11,968	1	73.39	69.73	1869	San Fran., Cal....	82.0	25.2	4.4	M. R. Roberts, San Francisco, Cal.
Humboldt, Str.....	96,354	1	107.59	688.48	1886	Fairhaven, Cal....	213.0	31.0	15.7	Humboldt, S. S. Co., Eureka, Cal.
Hunter, Str.....	95,783	2	104.50	52.25	1883	Coos Bay, Or.....	95.0	21.7	10.4	A. M. Simpson, San Francisco, Cal.
Hunter, Sch.....	96,157	1	63.32	60.17	1892	Benicia, Cal.....	75.0	20.6	8.2	R. Newman, Unalaska, Alaska.
Hunter, Sch.....	96,414	1	5.28	5.28	1898	Lummi, Wash....	30.3	9.1	2.4	S. Melchor, Port Townsend, Wash.
Huster, Str.....	96,097	1	204.26	129.58	1891	Portland, Or.....	102.0	21.0	7.0	J. M. Nickum, Portland, Or.
Iaqua, Sch.....	110,715	1	712.00	459.00	1900	Fairhaven, Cal....	189.9	36.4	12.9	Geo. A. Kellogg, Sec'y, Eureka, Cal.
Ida A, Sch.....	100,595	1	28.00	26.60	1895	Benicia, Cal.....	53.0	16.4	5.4	P. Anderson, San Francisco, Cal.
Idaho, Str.....	12,198	2	278.15	178.82	1860	Cascade, Wash....	147.7	25.0	6.4	G. H. George, Astoria, Or.
Ida Hazel, Gasoline...	100,322	1	14.61	8.93	1888	Astoria, Or.....	36.0	12.5	4.0	J. J. Loggie, San Francisco, Cal.
Ida McKay, Tern...	100,262	1	187.94	178.75	1880	Fairhaven, Cal....	113.0	30.0	8.6	A. P. Lorentzen, San Francisco, Cal.
Ida Schnauer, Sch...	100,186	1	215.32	204.60	1875	Pt. Ludlow, Wn....	117.6	31.3	9.4	A. R. Poole, San Francisco, Cal.
Ida W., Str.....	100,452	1	32.93	16.47	1889	San Fran., Cal....	64.0	16.5	7.8	A. R. Poole, San Francisco, Cal.
Ilamna, Sch.....	100,696	1	6.00	6.00	1895	Seattle, Wash....	32.2	8.5	4.1	..... Juneau, Alaska.
Ilwaco, Str.....	100,514	1	115.10	62.03	1891	Portland, Or.....	90.0	17.0	6.0	L. A. Loomis, Port Townsend, Wash.
Inca, Sch.....	100,524	1	1,014.41	901.88	1896	Pt. Blakely, Wn....	245.5	41.3	16.5	W. G. Hall, San Francisco, Cal.
Independence, Gas...	100,632	1	13.00	9.00	1897	Astoria, Or.....	41.3	11.0	4.3	T. Nelson, Astoria, Or.
Independence, Str...	100,668	1	148.00	83.00	1899	St. Michael, Aka...	87.0	20.0	4.0	I. B. Sprague, Port Townsend, Wash.
Indiana, Ship.....	100,883	1	49.00	30.00	1899	Everett, Wash....	67.9	17.5	6.9	Alaska Packers' Ass'n, San Francisco, Cal.
Industry, Sch.....	44,152	1	11.29	10.73	1868	Bath, Me.....	208.9	40.0	23.9	E. P. Newell, Port Townsend, Wash.
Industry, Sch.....	12,768	1	21.24	20.19	1867	Seattle, Wash....	54.5	9.7	2.4	Chas. J. Hammond, San Francisco, Cal.
Inland Flyer, Str...	100,660	1	151.00	88.00	1898	San Fran., Cal....	48.0	17.0	3.0	La Conner T. & T. Co., Seattle, Wash.
Inland Star, Str...	100,550	1	21.00	17.00	1892	Portland, Or.....	105.6	18.9	6.6	R. L. Taylor, Sec'y, San Francisco, Cal.
Invincible, Ship...	100,090	1	1,460.17	1,365.32	1873	The Dalles, Or....	42.0	9.0	3.0	J. S. Miller, Seattle, Wash.
Iola, Str.....	100,383	2	31.46	17.20	1885	Bath, Me.....	202.4	40.3	24.0	..... Portland, Or.
Ione, Str.....	100,461	1	242.56	213.40	1899	Big Skoot, Wn....	57.0	16.0	4.5	O. M. Hosford, Portland, Or.
Iralda, Sch.....	100,678	1	90.00	59.00	1899	Portland, Or.....	130.4	24.7	5.0	Portland Transfer Co., Portland, Or.
Irene, Str.....	100,672	1	107.00	52.00	1899	Seattle, Wash....	99.2	17.6	3.7	J. Silven, Seattle, Wash.
Irene, Sch.....	100,721	1	772.00	687.00	1900	Fairhaven, Cal....	186.4	39.7	14.3	..... San Francisco, Cal.
Iris, Str.....	100,646	1	11.00	7.00	1896	S. Bend, Wash....	44.8	8.7	3.0	Pac. Steam Whaling Co., San Francisco, Cal.
Islam, Str.....	100,704	1	11.00	7.25	1900	Alameda, Cal....	50.0	10.3	3.5	Port Townsend, Wash.
Irugard, Bktn.....	100,457	1	670.99	614.51	1889	Pt. Blakely, Wn....	176.6	37.8	14.4	San Francisco, Cal.
Isaac Reed, Ship...	101,159	1	1,541.00	1,488.00	1875	Waldoboro, Me....	212.0	40.0	24.2	E. R. Diamond, San Francisco, Cal.
Island Belle, Str...	100,546	1	143.04	60.28	1892	Ballard, Wash....	101.0	26.0	7.1	Alaska Packers' Ass'n, San Francisco, Cal.
Ivy, Sch.....	100,312	1	142.50	135.40	1882	San Fran., Cal....	102.5	28.8	8.8	Alaska Packers' Ass'n, San Francisco, Cal.
Iwahani, Str.....	100,712	1	588.00	239.00	1881	San Fran., Cal....	147.0	27.5	11.5	H. Samuelson, Seattle, Wash.
										Hololulu, H. I.

Queen City Boiler Works

P. J. SULLIVAN, Proprietor



ALL WORK PROMPTLY ATTENDED TO

Office Telephone, Main 405. Residence Telephone, Clay 796

Railroad Ave., foot of King St. NEAR P. C. CO.'S
BUNKERS Seattle, Wash.

Delivered to boats from Northern Pacific Bunkers at
West Seattle and at Tacoma.

Gale Creek Coal

A carefully washed, bituminous coal, occupying small
space. Sold at the right price.

GALE CREEK COAL MINING CO.,

TELEPHONE, MAIN 1259,

MINES AT WILKESON.

SEATTLE, WASH.

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND REG	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Length	Breadth	Depth	
J. A. Cummins, Str.	77,415	1	79.00	75.00	1886	San Fran., Cal.	86.5	20.0	7.6	Wm. Mighell, Honolulu, H. I.
J. B. Leed, Ship	75,683	1	1,550.66	1,407.42	1874	Kennebunk, Me.	207.5	34.5	24.0	Wm. Johnson, San Francisco, Cal.
J. B. Leed, Sch.	75,683	1	229.16	217.70	1876	Umpqua, Or.	123.0	33.4	9.3	J. Bruce, Seattle, Wash.
J. C. Elliott, Str.	77,108	1	28.56	27.13	1898	Georgetown, Wa.	48.2	15.5	6.4	Wm. C. Smith, Los Angeles, Cal.
J. C. Elliott, Bktn.	77,108	1	29.18	28.18	1899	Terminal Is., Cal.	51.7	12.4	6.7	Pac. Packing & Nav. Co., San Francisco, Cal.
J. C. Peters, Bktn.	75,809	1	1,062.00	1,007.00	1874	Sunderl'd, Eng.	210.5	34.1	19.2	F. E. Jensen, Seattle, Wash.
J. D. Peters, Str.	76,787	1	1,085.23	1,030.97	1875	Bath, Me.	182.2	36.1	21.8	J. H. pridge, San Francisco, Cal.
J. E. Boyden, Str.	76,752	1	880.70	788.07	1889	Stockton, Wash.	206.5	38.0	8.1	F. L. Bangs, Seattle, Wash.
J. G. Wall, Sch.	75,823	1	87.00	82.00	1888	Seattle, Wash.	86.5	19.0	9.6	L. B. Hastings, Port Townsend, Wash.
J. L. Sofen, Sch.	76,016	1	32.35	30.76	1878	Eureka, Cal.	51.0	21.0	7.0	E. P. Peterson, San Francisco, Cal.
J. M. Coleman, Str.	76,717	1	13.00	8.00	1901	San Fran., Cal.	42.0	12.5	4.6	C. McGregor, Port Townsend, Wash.
J. M. Coleman, Str.	76,703	1	463.90	440.71	1888	Ballard, Wash.	157.0	37.1	11.5	Cal. Fish Co., Coos Bay, Or.
J. M. Griffith, Bktn.	76,362	1	79.00	50.00	1887	Seattle, Wash.	71.5	18.4	7.4	J. H. Roberts, Sec., San Francisco, Cal.
J. M. Weather's, Tern	76,907	1	606.22	529.42	1882	Seabeck, Wash.	162.5	39.6	13.5	J. McKinnon, Juneau, Alaska.
J. R. McDonald, Str.	77,346	1	384.33	365.12	1890	Aberdeen, Wash.	140.0	37.8	11.4	J. Ostervold, Portland, Or.
J. M. Roberts, Str.	77,208	1	137.56	121.27	1899	Stockton, Cal.	104.5	25.5	5.0	Blanch Robertson, Seattle, Wash.
J. W. Scammell, Str.	77,301	1	13.37	9.09	1895	Seattle, Wash.	36.8	9.8	3.8	Jas. H. Bruce, San Francisco, Cal.
J. Warren, Str.	77,511	1	609.83	582.92	1898	San Fran., Cal.	165.5	36.6	6.5	Thos. Mellish, Sec., Seattle, Wash.
J. Willie, Sch.	77,015	1	10.00	7.00	1901	Coquille, Or.	31.3	12.8	5.6	W. E. Mighell, Honolulu, H. I.
Jabez Howes, Ship	75,966	1	18.07	17.17	1892	Wilmington, Cal.	21.8	40.1	26.0	Wm. Johnson, San Francisco, Cal.
Jacinto, Str.	76,827	1	1,648.00	1,521.00	1877	Newbury Pt., Mass.	145.0	32.6	3.5	J. McKinnon, Juneau, Alaska.
Jahawker, Sch.	76,619	1	235.40	182.42	1889	Sacramento, Cal.	32.5	10.9	4.4	J. Ostervold, Portland, Or.
J. A. GaGrfield, Tern.	76,259	1	9.00	8.00	1886	Seattle, Wash.	140.0	37.5	10.2	Blanch Robertson, Seattle, Wash.
Jas. B. Stephens, Str.	76,557	1	316.06	300.26	1881	N. Bend, Or.	48.7	12.4	3.0	Thos. Mellish, Sec., Seattle, Wash.
Jas. B. Stephens, Str.	76,557	1	31.17	26.40	1885	Portland, Or.	58.7	21.2	4.0	W. E. Mighell, Honolulu, H. I.
Jas. G. Swann, Sch.	75,178	1	34.48	32.77	1870	San Fran., Cal.	50.0	10.0	2.3	Wm. Johnson, San Francisco, Cal.
Jas. G. Swann, Sch.	76,803	1	25.00	18.00	1898	Elizabeth, N. J.	65.6	23.0	6.4	Jas. H. Bruce, San Francisco, Cal.
Jas. Johnson, Bktn.	77,321	1	59.91	44.33	1865	Fairhaven, Cal.	162.2	37.0	12.5	Thos. Mellish, Sec., Seattle, Wash.
J. M. Donahue, Str.	75,761	1	533.00	476.00	1901	Fairhaven, Cal.	214.0	41.3	16.6	W. E. Mighell, Honolulu, H. I.
Jas. Nesmith, Bktn.	75,761	1	1,149.00	993.00	1879	Seattle, Wash.	219.0	32.4	9.7	Wm. Johnson, San Francisco, Cal.
Jas. Nesmith, Bktn.	75,761	1	730.86	592.30	1875	Seattle, Wash.	214.0	41.3	16.6	Jas. H. Bruce, San Francisco, Cal.
Jas. Nesmith, Bktn.	75,761	1	301.00	137.00	1879	PL Ludlow, Wa.	111.0	25.5	9.5	Thos. Mellish, Sec., Seattle, Wash.
Jas. Rolph, Sch.	75,963	1	1,735.57	1,632.82	1877	Bath, Me.	228.1	40.3	26.35	W. E. Mighell, Honolulu, H. I.
Jas. Sennett, Sch.	77,453	1	586.00	517.00	1899	Fairhaven, Cal.	169.1	37.9	12.8	Wm. Johnson, San Francisco, Cal.
Jas. Tuft, Bktn.	77,453	1	766.00	692.00	1901	Fairhaven, Cal.	194.5	40.0	15.2	Jas. H. Bruce, San Francisco, Cal.
J. L. Stanford, 4 Bktn	77,070	1	1,274.00	1,043.00	1901	PL Blakly, Wa.	215.5	42.5	17.4	J. J. Smith, San Francisco, Cal.
Janus, Sch.	77,245	1	970.69	861.45	1892	Fairhaven, Cal.	215.5	41.0	17.0	Leon Blum, San Francisco, Cal.
Jeanette, Str.	77,079	1	8.00	8.00	1895	Portland, Or.	39.6	12.6	5.6	Pac. Pack. & Nav. Co., San Francisco, Cal.
Jeanie, 4 Str.	76,389	2	290.37	217.81	1893	Bonilla, Cal.	116.0	37.2	13.2	
			1,071.75	862.95	1883	Bath, Me.	186.3	37.9	18.8	

Stewart & Holmes Drug Co.



DO YOU WANT TO SEE A DIRECTORY?

You will find one convenient at our store

DO YOU WANT TO BUY A POSTAGE STAMP?

We will be glad to accommodate you

DO YOU WANT TO TAKE A STREET CAR SOMEWHERE?

We can tell you all about them

DO YOU WANT INFORMATION ABOUT ANYTHING?

Ask us—we will tell you if we can

DO YOU WANT ANYTHING SENT BY MAIL?

We can supply you

We never sleep—OPEN ALL NIGHT

DELIVERIES MADE IN ANY PART OF THE CITY

TELEPHONE MAIN 35

Stewart & Holmes Drug Co.

910 Pacific Ave. TACOMA

627 First Ave. SEATTLE

ERICKSON & WYMAN CO.

Dynamos and Motors

BUILT, REPAIRED AND EXCHANGED

Switches and Switch Boards, Incandescent and Arc Lamps

1212 POST STREET

SEATTLE,

WASHINGTON

A Full Line of
PIPES, CIGARETTES
AND
SMOKERS' ARTICLES

CONSIGNMENTS
SOLICITED
PROMPT RETURNS
MADE

F. Munroe

ESTABLISHED 1896

E. T. Beckwith

TELEPHONE JOHN 1846

MUNROE & BECKWITH

WHOLESALE AND RETAIL DEALERS IN

CIGARS, TOBACCO AND FRUITS

Cor. Railroad Ave. and Columbia St.

(OPPOSITE DEPOT)

SEATTLE, WASH.

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND REG	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Length	Breadth	Depth	
Jennie, 2 Str.	76,718	1	127.58	69.19	1896	Alameda, Cal.	99.5	22.3	8.6	Alaska Packers' Ass'n, San Francisco, Cal.
Jennie, Sch.	75,822	1	13.08	15.03	1875	San Fran., Cal.	48.4	11.4	4.8	E. Elwood, Pt. Townsend, Wash.
Jennie, F. Decker, Sch.	77,460	1	23.00	23.00	1901	Seattle, Wash.	52.7	16.5	7.0	J. W. Trim, Port Townsend, Wash.
Jennie, Honnor, Sch.	77,187	1	17.00	17.00	1895	Portland, Or.	40.0	14.6	4.6	....., Portland, Or.
Jennie, M. Str.	76,509	1	43.00	29.00	1898	St. Michael, Ala.	70.0	15.0	3.0	....., St. Michael, Alaska.
Jennie, Edna, Sch.	76,509	1	37.54	60.42	1884	Benicia, Cal.	46.4	10.3	5.5	B. H. Tietjen, San Francisco, Cal.
Jennie, Griffin, Sch.	75,892	1	29.73	27.86	1884	Benicia, Cal.	40.0	10.3	5.5	John Campbell, San Francisco, Cal.
Jennie, Stella, Tern.	75,149	1	142.58	78.09	1876	Coos Bay, Or.	132.0	34.4	9.85	E. K. Wood Lumber Co., San Francisco, Cal.
Jennie, Thelin, Sch.	76,469	1	173.34	138.32	1869	Day pt Lg., Cal.	91.0	29.5	8.25	H. Smith, San Francisco, Cal.
Jennie, Wand, Tern.	76,469	1	41.60	163.34	1883	Marsfield, Wash.	124.0	32.8	9.0	H. Steffen, San Francisco, Cal.
Jerry, Barge.	49,495	1	41.60	408.00	1898	Ballard, Wash.	98.0	32.4	8.0	Pacific Clipper Line, Seattle, Wash.
Jerry, Barge.	49,495	1	41.60	408.00	1898	Ballard, Wash.	98.0	32.4	8.0	Pacific Clipper Line, Seattle, Wash.
Jessie, Barge.	77,298	1	61.34	21.30	1898	Ballard, Wash.	55.2	14.5	3.4	R. Chilcott, Port Townsend, Wash.
Jessie, Sch.	76,244	1	11.33	3.37	1881	Seattle, Wash.	36.4	10.2	3.3	Geo. S. Allen, Port Townsend, Wash.
Jessie, Sch.	77,167	1	38.35	26.34	1894	Pt. Angeles, Wn.	54.4	17.3	6.9	W. W. Whillple, Port Angeles, Wash.
Jessie, Sch.	77,204	1	33.34	29.05	1890	Benicia, Cal.	76.0	24.5	8.7	F. D. Winton, Seattle, Wash.
Jessie, Fremont, Sch.	13,552	1	29.49	28.02	1858	San Fran., Cal.	54.0	13.1	4.45	John Barton, San Francisco, Cal.
Jessie, Maitzen, Sch.	77,082	1	22.54	31.01	1893	San Fran., Cal.	55.0	18.2	4.6	G. W. Hatch, San Francisco, Cal.
Jessie, Minor, Tern.	76,473	1	21.54	21.92	1883	Fairhaven, Cal.	129.0	32.5	9.2	Wm. Whitney, Eureka, Cal.
Jessel, Sch.	46,523	1	13.00	13.00	1899	Fairhaven, Wash.	44.4	14.2	2.6	N. American Fish Co., Port Townsend, Wash.
John A. Sch.	77,092	1	282.37	268.32	1893	Eureka, Cal.	131.7	32.0	9.8	A. A. Curtis, San Francisco, Cal.
John A. Briggs, Ship.	76,022	3	2,110.37	1,989.87	1878	Freeport, Me.	234.2	44.10	20.5	G. Plummer, San Francisco, Cal.
J. A. Campbell, Sch.	77,154	1	54.68	362.42	1895	Pt. Blakly, Wn.	161.2	36.7	12.8	J. H. Madeson, San Francisco, Cal.
John C. Barr, Sch.	77,326	1	1,246.00	315.00	1898	Unalaska, Ala.	190.1	36.7	24.0	J. Tyson, San Francisco, Cal.
John C. Potter, Ship.	77,394	2	1,244.38	1,145.37	1869	Searsport, Me.	185.5	21.2	10.3	Pac. Pack. & Nav. Co., Pt. Townsend, Wash.
John Cudany, Sch.	77,498	1	1,223.00	35.00	1900	Ballard, Wash.	192.3	32.6	5.0	California Shipping Co., San Francisco, Cal.
John Cudany, Sch.	77,354	1	1,819.00	481.00	1898	Unalaska, Ala.	185.5	21.2	10.3	H. W. Goodall, San Francisco, Cal.
John Currier, Ship.	77,358	1	1,845.00	1,847.00	1882	Newry pt, Mass.	235.8	42.8	26.8	A. Jensen, San Francisco, Cal.
John D. Sprickels, Bgn.	76,060	1	266.96	253.00	1880	San Fran., Cal.	124.6	31.2	10.9	J. Lorenzen, San Francisco, Cal.
John D. Talant, Sch.	77,497	1	561.51	470.57	1892	Alameda, Cal.	168.0	37.0	12.6	E. A. Hansen, San Francisco, Cal.
John Edna, Ship.	77,497	1	2,842.00	2,706.00	1892	Glasgow, Scot.	312.9	48.1	25.0	B. H. Hanson, San Francisco, Cal.
John Frederick, Sch.	13,550	1	33.38	32.25	1860	San Fran., Cal.	52.9	18.6	4.0	Geo. U. Hind, San Francisco, Cal.
John F. Miller, Sch.	76,311	1	179.19	170.25	1882	San Fran., Cal.	107.0	30.6	9.0	....., St. Michael, Alaska.
John G. North, Tern.	76,256	1	336.94	320.11	1881	Marsfield, Or.	143.5	34.2	11.2	....., St. Michael, Alaska.
J. H. Wright, Barge.	46,537	1	376.00	375.00	1898	Dutch H., Ala.	175.0	36.0	5.3	S. Langlars, Port Townsend, Wash.
John J. Healy, Sch.	77,238	1	450.00	241.62	1896	St. Michaels, Alaska	39.5	13.4	4.4	J. Olsen, San Francisco, Cal.
J. J. Mitchell, Barge.	46,538	1	80.00	80.00	1898	St. Michaels, Alaska	52.5	20.0	4.0	F. Wickman, San Francisco, Cal.
John Lambert, Sch.	77,851	1	15.00	15.00	1899	Pt. Town'd, Wn.	39.5	13.4	4.4	....., San Francisco, Cal.
John L. Sch.	13,854	1	30.31	28.80	1867	San Fran., Cal.	71.5	24.5	5.6	....., San Francisco, Cal.
John Nagel, Sch.	13,831	1	66.21	62.90	1867	Fairhaven, Cal.	223.9	42.4	17.2	....., San Francisco, Cal.
John Palmer, Bktn.	77,435	1	1,187.00	1,080.00	1900	Fairhaven, Cal.	223.9	42.4	17.2	....., San Francisco, Cal.
John Reilly, Str.	77,391	1	220.00	143.00	1898	St. Law. Is., Wn.	100.0	22.0	5.0	....., San Francisco, Cal.
John Smith, Bktn.	76,313	1	588.46	525.85	1882	Pt. Blakly, Wn.	159.3	37.2	14.4	G. E. Billings, San Francisco, Cal.

MARINE ENGINEERS

GET IN TOUCH WITH

us. We know that we can be of service to you, if you will write us your wants as regards **packings** for your valve rods, pistons, etc. WE are the manufacturers of

GARLOCK'S HIGH GRADE PACKINGS

for every purpose and can assure you they are the best, being made of superior material, and are of the finest workmanship. Address our nearest office and you will receive our prompt, careful and best attention.

THE GARLOCK PACKING CO.

**537 Mission St.,
SAN FRANCISCO, CAL.**

**New York, Boston, Chicago, Philadelphia, Pittsburg,
Cleveland, St. Louis, Denver,**

MAIN OFFICES AND FACTORIES:

PALMYRA, N. Y. ATLANTA, GEORGIA. SAN FRANCISCO, CAL.

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dfs.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Length	Breadth	Depth	
J. S. Kimball, Str.	77,427	1	1,588.00	1,208.00	1900	Everett, Wash.	239.0	38.0	24.0	Dollar, S. S. Co., San Francisco, Cal.
John West, Str.	76,350	1	15.00	7.00	1882	Rainier, Or.	48.8	11.6	4.1	H. J. Knowles, Astoria, Or.
John & Winthrop, B'k	75,841	2	338.29	321.38	1876	Bath, Me.	114.4	28.5	16.25	Callender Navigation Co., Knappton, Wash.
Jordan, Str.	77,501	1	90.00	61.00	1901	Astoria, Or.	47.0	17.3	6.2	H. K. Anderson, San Francisco, Cal.
Josephine, Sch.	77,562	1	23.62	22.44	1855	San Fran., Cal.	47.0	19.2	4.8	A. Williamson, San Diego, Cal.
Josephine, Sch.	77,125	1	21.16	20.10	1894	San Diego, Cal.	42.3	11.8	5.6	Shipowners & Mer. Tugb. Co., San Francisco.
Jos. H. Redmond, Str.	75,095	1	47.00	23.00	1869	San Fran., Cal.	74.5	17.0	8.6	J. Kellogg, Trans. Co., Portland, Or.
Joseph Kellogg, Str.	77,431	1	462.00	342.00	1900	Portland, Or.	139.2	26.5	7.2	A. E. Cann, Astoria, Or.
Jos. L. Evisston, Bktn.	77,397	1	755.00	662.00	1900	Marshfield, Or.	190.4	40.0	15.0	C. A. Hooper, San Francisco, Cal.
Joseph Russ, Sch.	77,123	1	76.00	73.00	1894	Essex, Me.	78.0	22.0	9.4	J. Behrens, San Francisco, Cal.
Joseph Russ, Term.	76,283	1	247.34	235.01	1881	Eureka, Cal.	124.0	30.0	9.6	A. P. Stockwell, Seattle, Wash.
Josie, Sch.	75,141	1	48.61	46.18	1869	San Fran., Cal.	71.0	24.6	4.5	F. Mitchell, San Diego, Cal.
Josie Burrows, Str.	77,098	1	131.80	98.20	1893	Aberdeen, Wash.	90.0	18.5	4.8	J. Watson, San Francisco, Cal.
Juanita, Sch.	77,058	1	7.18	6.81	1892	San Fran., Cal.	31.0	12.6	4.0	E. E. Miller, Portland, Or.
Julia, Sch.	77,405	1	10.00	10.00	1882	Coupeville, Wn.	36.5	12.1	4.5	H. Gawley, Port Townsend, Wash.
Julia E. Whalen, Sch.	76,541	1	101.32	96.00	1884	Essex, Me.	82.5	23.6	10.0	H. E. Pool, Tacoma, Wash.
Juneau, Str.	76,541	1	93.00	67.00	1897	Portland, Or.	80.9	15.8	7.3	Alaska Packers' Ass'n, San Francisco, Cal.
Juniata, Str.	77,220	1	9.54	6.49	1893	Tacoma, Wash.	32.6	8.2	3.5	Alaska Packers' Ass'n, Seattle, Wash.
Juno, Str.	75,862	1	22.00	14.00	1876	Coos River, Or.	56.5	11.5	4.6	Alaska Packers' Ass'n, San Francisco, Cal.
Jupiter, Str.	77,340	1	11.00	7.00	1898	Tacoma, Wash.	30.0	10.6	4.6	Alaska Packers' Ass'n, San Francisco, Cal.
Kadiak, Str.	161,082	2	114.94	58.32	1896	Alameda, Cal.	106.0	22.5	9.7	G. Hind, San Francisco, Cal.
Kaena, Str.	161,149	1	35.00	24.00	1878	San Fran., Cal.	61.5	15.0	5.0	E. R. Diamond, Sec'y, San Francisco, Cal.
Kailua, Sch.	161,167	1	736.00	653.00	1900	Hogulum, Wash.	182.5	38.5	14.5	W. A. Johnston, Honolulu, H. I.
Kailuani, Bark.	161,135	1	1,570.82	1,430.57	1900	Bath, Me.	225.7	42.3	20.0	Leon Blum, San Francisco, Cal.
Kailuani, Str.	161,133	1	384.09	243.92	1899	Alameda, Cal.	140.5	30.0	12.0	Alaska Packers' Ass'n, Seattle, Wash.
Ka Mol, Sch.	126,047	1	118.00	108.00	1882	San Fran., Cal.	93.1	27.2	7.5	A. C. Friesee, San Francisco, Cal.
Karuk, 2 Str.	14,427	2	321.25	247.92	1884	Bentola, Cal.	125.6	27.0	8.3	C. Lutiens, San Francisco, Cal.
Katahdin, Str.	161,136	1	44.00	25.00	1899	Seattle, Wash.	63.6	17.6	4.2	Port Blakeley Mill Co., San Francisco, Cal.
Katata, Sch.	161,173	1	12.00	9.00	1901	San Fran., Cal.	44.0	13.4	5.3	A. J. Stuckey, Seattle, Wash.
Kate, Sch.	14,307	1	21.79	10.90	1874	Vallejo, Cal.	51.2	13.2	5.0	C. F. Peterson, Coos Bay, Or.
Kate and Anna, Sch.	161,071	1	10.85	10.89	1895	Burton, Wash.	32.2	11.6	5.7	Ukon Gold D. Co., Seattle, Wash.
Kate Davenport, B'k	14,023	2	24.65	23.42	1879	Yaquna Bay, Or.	56.4	14.8	5.8	L. M. Damon, San Francisco, Cal.
Katie Cook, Str.	14,345	1	1,248.96	1,175.10	1866	Bath, Me.	189.4	37.0	24.0	P. J. Lehm, San Francisco, Cal.
Katie Fickinger, Bkn	14,347	1	39.00	19.00	1876	Parkersburg, Or.	57.5	15.2	5.8	P. Weir, Portland, Or.
Katie Heinrich, Str.	161,108	1	472.00	425.00	1876	Seattle, Wash.	145.2	35.9	13.6	Wm. Bishop, Port Townsend, Wash.
Katie Holmes, Sch.	14,337	1	248.29	144.98	1898	Seattle, Wash.	120.9	24.0	4.2	Alaska Packers' Ass'n, San Francisco, Cal.
Katie S. Sch.	161,051	1	26.68	25.35	1875	San Fran., Cal.	49.0	18.8	3.4	Alaska Packers' Ass'n, Seattle, Wash.
Katie Weir, Str.	161,137	1	78.31	74.41	1894	San Fran., Cal.	78.5	19.0	8.5	Alaska Packers' Ass'n, San Francisco, Cal.
Katy, Str.	14,405	1	9.00	5.00	1900	Portland, Or.	40.0	9.8	3.5	Alaska Packers' Ass'n, San Francisco, Cal.
Kaukaouli, Sch.	161,153	1	93.44	42.23	1882	San Fran., Cal.	76.0	18.4	8.5	Alaska Packers' Ass'n, Seattle, Wash.
			140.00	73.00	1879	Pt. Ludlow, Wn.	80.0	24.0	8.5	Alaska Packers' Ass'n, San Francisco, Cal.

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND REG.	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Lgth.	Brlth.	Depth	
Kawallani, Sch.	131,154	1	24.00	24.00	1883	San Fran., Cal.	45.0	18.0	5.0	Alaska Packers' Ass'n, Honolulu, H. I.
Kayak, Str.	131,177	1	115.00	73.00	1901	Alameda, Cal.	107.0	23.0	10.0	Alaska Packers' Ass'n, San Francisco, Cal.
Ke Au Hou, Str.	136,466	1	263.00	192.00	1894	Pt. Blakely, Wn.	117.5	28.5	9.0	J. M. Nickum, Portland, H. I.
Kehani, Str.	161,034	1	118.42	85.41	1892	Portland, Or.	90.0	17.0	6.0	W. A. Boole, San Francisco, Cal.
Kennebec, Ship	2,126.51	3	1,939.01	1,383.00	1890	Bath, Me.	237.7	43.3	18.4	D. Sullivan, San Francisco, Cal.
Kid, Str.	14,422	1	14.00	12.63	1900	San Fran., Cal.	41.0	14.0	4.1	R. Moran, Seattle, Wash.
Kilauea Hou, Str.	131,156	1	209.00	154.00	1878	Honolulu, H. I.	114.3	24.5	10.0	J. Tuft, San Francisco, Cal.
King County, Str.	131,145	1	412.00	252.00	1900	Seattle, Wash.	155.5	33.0	14.7	Alaska Packers' Ass'n, San Francisco, Cal.
King Cyrus, 4 Sch.	131,003	1	717.87	630.82	1890	Pt. Blakely, Wn.	188.5	38.4	14.7	J. E. Manley, Seattle, Wash.
Kingsthorpe, Str.	131,141	1	11.00	7.31	1900	San Fran., Cal.	45.0	13.0	5.2	..... Astoria, Or.
Kinney, Sch.	131,175	1	18.00	12.00	1891	Seattle, Wash.	50.4	13.0	3.0	..... Wrangel, Alaska.
Klawack, Str.	14,482	1	7.00	7.00	1889	Astoria, Or.	35.0	14.0	6.5	..... Portland, Or.
Klickitat, Barge	14,454	1	21.00	10.00	1887	San Fran., Cal.	52.5	12.9	14.0	..... Sitka, Alaska.
Klickitat, Bktm	47,176	1	998.00	949.00	1890	Portland, Or.	184.0	38.5	12.7	..... St. Michael, Alaska.
Klinquan, Str.	131,120	1	493.02	437.35	1881	Coos Bay, Or.	163.0	38.8	5.0	..... F. Derock, Astoria, Or.
Klondike, Sch.	131,114	1	8.00	5.00	1896	Klinquan, Aka.	40.0	10.6	4.2	..... E. C. Wright, Sec'y, San Francisco, Cal.
Klondike, Sch.	131,134	1	406.00	242.00	1898	Dutch H., Aka.	120.8	27.5	4.5	..... H. Williams, Sec'y, San Francisco, Cal.
Kodak, Str.	14,481	1	35.00	33.00	1897	Astoria, Or.	51.5	19.4	6.0	..... Alaska Commercial Co., San Francisco, Cal.
Kodak, 2 Sch.	14,481	1	247.88	146.71	1885	Marysville, Cal.	137.0	32.8	9.3	..... L. E. Noonan, San Francisco, Cal.
Kodak, 2 Sch.	14,481	1	24.35	12.18	1889	San Fran., Cal.	53.0	14.5	3.5	..... Alaska Packers' Ass'n, San Francisco, Cal.
Kohala, Bktm	131,184	1	146.52	125.28	1895	Benicia, Cal.	105.0	25.3	16.0	.....
Kona, Sch.	131,180	1	679.00	642.00	1901	Fairhaven, Cal.	47.0	15.5	4.8	.....
Kotzebue, Str.	131,106	1	39.37	28.75	1898	Alameda, Cal.	47.0	15.5	4.8	.....
Kvichak, Str.	131,140	1	1,063.77	610.95	1900	Sausalito, Cal.	200.2	35.5	4.0	.....
L. Brothers, Sch.	141,680	1	12.00	12.00	1900	Seattle, Wash.	35.8	12.6	5.1	.....
L. T. Hass, Str.	141,472	1	89.68	60.98	1897	Seattle, Wash.	77.8	15.8	4.7	.....
L. J. Perry, Str.	140,117	1	54.00	35.00	1875	Pt. Gamble, Wn.	67.0	15.6	4.0	.....
La Camas, Str.	141,093	1	14.11	9.60	1890	Honolulu, H. I.	55.0	14.0	5.0	.....
Lacabelle, Sch.	141,512	1	10.69	10.00	1885	Portland, Or.	46.0	16.0	4.8	.....
La Conner, Str.	141,557	1	297.00	190.69	1897	Puabso, Wash.	41.3	11.4	5.0	.....
Lady, Sch.	141,618	1	20.00	20.00	1898	La Conner, Wash.	118.0	24.0	5.0	.....
Lady George, Sch.	141,079	1	15.80	14.82	1890	Pt. Townsend	58.7	14.0	5.2	.....
Lady Lake, Str.	141,428	1	36.19	24.61	1896	Ballard, Wash.	57.7	15.0	5.1	.....
Lady of the Lake, Str	140,476	1	79.65	54.17	1897	Seattle, Wash.	68.5	15.0	5.5	.....
Lady Mine, Sch.	140,462	1	58.16	55.28	1880	Pt. Ludlow, Wn.	76.0	21.9	8.4	.....
Lady Mine, Sch.	141,535	1	9.00	9.00	1898	Pt. Kenyon, Cal.	41.4	14.4	3.3	.....
Lahaina, Bktm	141,722	1	1,067.00	994.00	1901	Oakland, Cal.	217.0	42.0	17.0	.....
Lakme, Str.	140,944	1	529.40	404.18	1888	Pt. Madison, Wn.	176.8	38.8	12.6	.....
Laura Madsen, Tern.	140,590	1	345.81	328.52	1882	Gardiner, Or.	140.0	38.0	10.0	.....
Laura M. Damon, Sch	15,209	1	20.51	19.49	1860	Damon's L., Cal.	46.0	18.3	4.3	.....

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG.	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Length	Breadth	Depth	
Laura Pike, Sch.	140 152	1	145.66	139.38	1875	Eureka, Cal.	96.0	29.0	7.7	The Chas. Nelson Co., San Francisco, Cal.
Laurel, Str.	141 162	1	18.00	18.00	1891	Cillean, Aka.	36.7	11.4	3.2	I. Bloominghof, Seattle, Wash.
Lavita, Str.	141 951	1	11.00	11.00	1899	Seattle, Wash.	31.0	11.0	7.2	O. Abernethy, Seattle, Wash.
Lavita, Str.	141 619	1	13.00	12.00	1899	Seattle, Wash.	31.8	8.3	3.2	R. Winick, Seattle, Wash.
Lavelle Young, Str.	141 529	1	506.24	396.94	1898	Portland, Or.	140.0	32.0	6.5	W. H. Putterson, Portland, Or.
Leader, Str.	140 718	1	409.23	326.17	1894	Stockton, Cal.	140.0	32.0	6.5	S. Newell, San Francisco, Cal.
Leah, Str.	141 556	1	477.60	291.10	1898	St. Michaels, Aka.	138.7	31.0	6.3	A. Storrs, Agent, St. Michael, Alaska.
Leefanaw, Str.	141 554	1	1,923.72	1,377.23	1886	Newcastle, Eng.	273.8	36.3	21.3	C. Royal, Seattle, Wash.
Lena, Sch.	141 696	1	10.00	10.00	1881	St. Town, Wn.	38.4	12.0	3.2	E. Gelmann, Sec'y, San Francisco, Cal.
Lena L. G. Str.	141 288	1	16.18	16.18	1892	San Fran., Cal.	50.9	13.0	7.0	E. Wymann, San Francisco, Cal.
Lena L. Sch.	141 205	1	28.68	26.23	1892	San Fran., Cal.	50.9	13.0	7.0	W. Olsen, San Francisco, Cal.
Lena Sweasy, Sch.	141 533	1	256.68	243.00	1882	Eureka, Cal.	130.2	32.0	6.7	A. B. Graham, Portland, Or.
Leon, Str.	141 533	1	692.40	631.20	1885	San Fran., Cal.	181.0	35.5	6.7	A. B. Graham, Portland, Or.
Leon, Str.	140 890	1	189.10	183.00	1897	Portland, Or.	135.0	21.0	4.3	A. B. Graham, Portland, Or.
Leon, Yawl.	140 890	1	9.12	8.70	1888	Eureka, Cal.	33.2	8.8	3.3	A. B. Graham, Portland, Or.
Leonore, Str.	141 532	1	7.50	7.50	1888	Portland, Or.	11.9	8.2	3.3	A. B. Graham, Portland, Or.
Leota, Str.	141 541	1	36.35	24.38	1868	Alameda, Cal.	50.5	16.0	3.5	H. S. McGowan, Chinook, Wash.
Leslie, Sch.	141 536	1	9.89	9.40	1894	Newport, Or.	36.6	13.3	4.0	G. W. Chase, San Francisco, Cal.
Leslie Baldwin, Str.	141 504	1	23.00	23.00	1901	San Fran., Cal.	56.0	14.0	6.0	J. H. Bruce, Kodiak, Alaska.
Lesnoy, Sch.	141 504	1	8.00	7.00	1892	Kodiak, Aka.	35.0	9.5	3.8	....., Honolulu, H. I.
Lettie, Sch.	141 132	1	29.00	28.00	1885	Kodiak, Aka.	53.3	17.2	9.1	....., Kodiak, Alaska.
Letitia, 2 Sch.	14 543	1	245.83	233.54	1897	Salem, Mass.	112.0	28.51	10.4	D. Hunter, San Francisco, Cal.
Levi G. Burgess, B'r.	140 270	2	1,616.66	1,455.29	1877	Thomaston, Me.	217.5	47.2	25.5	J. Jensen, San Francisco, Cal.
Lewiston, Str.	141 361	1	513.92	487.60	1894	Riparia, Wash.	165.0	34.4	5.3	O. R. & N. Co., Portland, Or.
Lew Young, Sch.	140 013	1	33.19	31.54	1874	Oakland, Cal.	52.0	21.0	4.2	J. Harl, San Francisco, Cal.
Liberty, Str.	141 017	1	60.90	30.45	1889	Bandon, Or.	66.0	18.2	8.7	J. W. Curry, San Francisco, Cal.
Lie, E. Sch.	141 483	1	27.39	27.39	1897	Ballard, Wash.	53.5	15.6	7.3	J. Johnson, Seattle, Wash.
Lillebonne, Tern	140 619	1	218.45	207.53	1883	Eureka, Cal.	122.7	31.2	9.2	J. Pederson, San Francisco, Cal.
Lillian, Str.	140 964	1	25.52	17.48	1889	San Fran., Cal.	57.5	11.2	5.35	L. P. Hawley, San Francisco, Cal.
Lillian, Str.	141 470	1	34.35	19.48	1897	San Fran., Cal.	61.5	16.6	6.5	Alaska Packers Ass'n, San Francisco, Cal.
Lillian, Str.	140 952	1	39.00	37.00	1888	Oakland, Cal.	57.5	22.1	3.5	....., San Francisco, Cal.
Lillian, Str.	140 584	1	17.00	8.00	1883	Rahier, Or.	55.0	13.5	4.0	V. McConnell, Port Townsend, Wash.
Lillian, Str.	141 151	1	7.45	7.08	1891	St. Discov'y, Wn.	35.0	10.6	3.8	....., Juneau, Alaska.
Lillie, Sch.	141 138	1	6.00	6.00	1891	Stuart Is., Wn.	35.0	10.6	3.8	....., Port Townsend, Wash.
Lillie, Sch.	141 706	1	31.00	21.00	1901	Seattle, Wash.	45.5	18.9	3.7	Wild Goose T. & N. Co., Seattle, Wash.
Lily, Sch.	140 556	1	142.50	135.40	1882	San Fran., Cal.	102.5	28.8	8.8	J. Knowland, San Francisco, Cal.
Lily, Str.	140 478	1	123.00	72.00	1881	Seattle, Wash.	92.5	16.4	3.7	....., Seattle, Wash.
Lily and Maud, Sch.	141 360	1	8.05	7.65	1894	Ballard, Wash.	32.2	10.5	4.8	G. Anderson, Seattle, Wash.
Lily L. Sch.	140 872	1	66.75	63.42	1887	San Fran., Cal.	79.5	21.3	6.5	E. A. Sanborn, Seattle, Wash.
Lime Point, Sch.	15 811	1	19.86	18.87	1862	Benicia, Cal.	49.0	18.0	3.1	J. C. Jensen, San Francisco, Cal.
Linda, Sch.	141 637	1	8.09	8.64	1888	Benicia, Cal.	36.9	14.0	5.5	A. E. Smith, Tacoma, Wash.
Linda, Str.	141 561	1	693.00	631.00	1898	Unalaska, Aka.	181.0	36.5	6.7	....., St. Michael, Alaska.
Little Giant, Str.	141 565	1	8.00	7.00	1898	N. Whatcom, Wn	35.8	9.0	3.9	E. E. Coley, Port Townsend, Wash.

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net						
Lively, Str.....	140,973	1	12,00	6,00	1874	Mare Is., Cal...	43.9	14.0	3.8	J. G. Nevins, Se'cy, San Francisco, Cal.
Lizzie, Str.....	15,227	1	124.62	90.86	1867	San Fran., Cal...	90.0	17.5	4.6	E. A. Gardner, Seattle, Wash.
Lizzie B, Sch.....	131,372	1	31.65	18.94	1884	Ballard, Wash...	58.5	14.4	5.6	J. A. Matherson, Seattle, Wash.
Lizzie Colby, 2 Sch..	140,580	1	150.43	142.91	1882	Essex, Mass....	95.9	24.9	9.2	J. Kane, San Francisco, Cal.
Lizzie H, Sch.....	141,801	1	18.75	17.82	1893	Ryer Is., Cal...	45.0	17.3	3.0	J. D. Macerree, San Francisco, Cal.
Lizzie M, Sch.....	140,604	1	15.87	15.14	1883	San Fran., Cal...	42.4	15.2	4.0	J. H. C. Prien, San Francisco, Cal.
Lizzie Prien, Sch....	140,749	1	15.87	15.14	1884	Parkersburg, Or.	94.8	30.6	6.4	J. A. Plummer, San Francisco, Cal.
Lizzie R. A., Sch....	15,212	1	18.00	17.00	1863	San Fran., Cal...	46.0	18.4	3.5	J. Olsen, San Francisco, Cal.
Lizzie T. Adams, Sch.	15,206	1	26.82	25.48	1860	San Fran., Cal...	52.3	17.0	4.8	B. H. Tietjen, Eureka, Cal.
Lizzie Theresa, Sch..	140,213	1	56.50	53.70	1876	Vallejo, Cal....	67.5	25.0	5.85	Alaska Packers' Ass'n, San Francisco, Cal.
Lizzie Vance, Tern...	140,876	1	442.48	383.30	1887	Pt. Blak'ly, Wn...	148.5	36.1	11.3	A. U. Love, San Diego, Cal.
Llew'n J. Morse, Ship	140,258	2	1,392.68	1,271.11	1877	Brewer, Me....	198.2	36.6	24.2	P. H. Burns, Arlington, Or.
Loma, Sch.....	140,983	1	19.66	18.68	1883	Seattle, Wash...	48.5	14.2	6.5	M. Taylor, San Francisco, Cal.
Lone Fisherman, Str.	140,623	1	12.00	6.00	1883	Seattle, Wash...	42.2	24.4	4.0	Pacific Cold Storage Co., Seattle, Wash.
Lora, Str.....	141,496	1	25.51	17.35	1896	Arlington, Or...	50.0	17.0	5.0	R. Axman, San Francisco, Cal.
Lorenda, Str.....	141,568	1	49.00	49.00	1898	St. Michaels, Aka	48.0	18.0	4.0	James Clapham, Port Townsend, Wash.
Lorenz & William, Sch	15,203	1	23.09	21.94	1866	San Fran., Cal...	145.7	24.8	6.5	G. Billings, San Francisco, Cal.
Lotta, Str.....	141,569	1	29.00	18.00	1898	Seattle, Wash...	57.5	14.0	5.6	W. Bradford, Tacoma, Wash.
Lotta Talbot, Str....	140,038	1	342.00	216.00	1873	Stockton, Cal...	170.4	37.6	12.8	G. W. Marston, San Diego, Cal.
Lottie, Sch.....	15,547	1	25.74	13.12	1883	Seattle, Wash...	58.6	15.5	5.6	A. M. Simpson, San Francisco, Cal.
Lottie Bennett, Sch..	151,625	1	30.19	28.69	1868	Utsalady, Wash.	51.5	20.5	3.4	C. Christensen, San Francisco, Cal.
Lottie Carson, Tern...	140,479	1	566.00	495.00	1899	Pt. Blak'ly, Wn...	91.8	20.0	5.7	W. P. Grey, Port Townsend, Wash.
Lottie Carson, Tern...	140,479	1	295.50	244.63	1881	Pt. Blak'ly, Wn...	127.3	32.8	8.0	B. Olsen, Seattle, Wash.
Lotus, St. S.....	141,743	1	114.00	78.00	1901	Tacoma, Wash...	38.3	12.2	3.6	J. Haggblom, Astoria, Wash.
Lou, Sch.....	140,679	1	12.00	12.00	1883	San Diego, Cal...	193.8	36.0	18.0	M. F. Luhrs, Port Townsend, Wash.
Louis, 5 Sch.....	140,949	2	831.43	819.80	1888	N. Bend, Or....	36.5	12.0	3.5	J. Schoenfeld, San Francisco, Cal.
Louise, Sch.....	141,425	1	8.40	8.40	1896	Astoria, Or....	51.5	20.5	3.5	O. D. Butterfield, Seattle, Wash.
Louise, Sch.....	15,688	1	24.79	23.56	1870	King's Rch, Cal.	91.5	22.0	4.2	C. L. Fair, San Francisco.
Louise, Str.....	140,620	1	167.75	129.77	1883	Seabeck, Wash...	150.0	35.0	10.0	J. Knowland, San Francisco, Cal.
Louise, Tern.....	141,201	1	345.62	289.34	1892	Fairhaven, Cal...	46.2	15.3	5.6	S. Olsen, Seattle, Wash.
Louise, Sch.....	141,566	1	21.00	21.00	1898	Conneville, Wn...	165.0	36.4	5.0	M. Haggblom, Astoria, Wash.
Louise, Str.....	141,572	1	717.00	451.00	1898	Unalakleet, Aka	45.7	11.4	3.7	Lewis E. Spear, San Francisco, Cal.
Louise, Str.....	141,692	1	13.00	9.00	1901	Warrenton, Or...	202.4	40.0	27.1	O. D. Butterfield, Seattle, Wash.
Louise S, Sch.....	141,692	1	38.00	38.00	1900	Irondale, Wash...	54.9	15.8	5.8	S. B. Peterson, San Francisco.
Louisiana, Bark.....	15,941	3	1,436.43	1,343.97	1873	Bath, Me....	207.4	40.0	14.4	J. Knowland, San Francisco.
Louis Walsh, Ship...	15,341	3	1,556.66	1,433.99	1861	Belfast, Me....	182.4	40.0	17.1	G. E. Billings, San Francisco, Cal.
Loyal, Sch.....	141,346	1	27.89	26.50	1894	Seattle, Wash...	92.0	16.2	8.5	E. Ellingerson, Astoria, Or.
Lucero, Ship.....	141,405	1	59.72	21.79	1895	Seattle, Wash...	200.2	40.0	23.9	
Lucille, Ship.....	140,031	2	1,402.35	1,297.56	1874	Freeport, Me...	142.0	34.0	9.0	
Lucy, 3 Sch.....	141,112	1	309.49	294.02	1880	Fairhaven, Wash	45.5	12.0	5.1	
Lucy, Str.....	140,614	1	18.00	9.00	1883	Seattle, Wash...	185.4	38.3	14.3	
Ludlow, Sch.....	141,661	1	762.00	643.00	1900	Pt. Blak'ly, Wn...	56.6	16.8	4.0	
Ludwick, Sch.....	140,853	1	33.32	31.65	1888	Astoria, Or....	56.6	16.8	4.0	

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Lgth	Brt	Depth	
Lue, Sch.	141,546	1	9.89	9.89	1898	Marietta, Wash.	32.0	11.3	4.6	E. A. Macomber, Port Townsend, Wash.
Luella, Sch.	141,538	1	6.41	6.41	1892	Newport, Cal.	27.7	8.4	3.2	H. Carstensen, San Pedro, Cal.
Luella, Sch.	141,579	1	412.00	178.00	1898	Florence, Or.	145.0	32.0	10.6	A. W. Beadle, Mgr., San Francisco, Cal.
Luella, Sch.	141,161	1	98.99	94.26	1891	Sausalito, Cal.	87.0	24.3	7.2	H. Moore, San Francisco, Cal.
Luka, Sch.	141,552	1	122.00	70.00	1878	Pt Ludlow, Wash.	77.0	23.0	8.0	..... Honolulu, H. I.
Lumberman, Str.	141,583	1	34.00	19.00	1899	Seattle, Wash.	54.0	17.0	6.5	Sam A. Hoyt, Seattle, Wash.
Lurline, Sch.	140,605	1	49.73	47.25	1883	San Fran., Cal.	75.0	21.2	6.9	Wm. Matson, San Francisco, Cal.
Lurline, Sch.	140,884	1	358.74	340.82	1887	Benicia, Cal.	135.0	34.0	13.0	J. Masterson, San Francisco, Cal.
Lurline, Str.	140,341	1	481.42	338.38	1878	Portland, Or.	157.7	30.7	6.6	Vancouver Trans. Co., Vancouver, B. C.
Lurline, Str.	141,751	1	41.00	27.00	1901	Monahan, Wash.	63.0	15.0	5.3	J. K. Munson, Seattle, Wash.
Luzon, Sch.	141,642	1	545.00	512.00	1890	Alameda, Cal.	170.0	36.8	12.2	..... San Francisco, Cal.
Lydia, Bark.	14,856	1	329.79	313.28	1890	Rochester, Mass.	104.0	27.0	18.0	G. W. Hendry, San Francisco, Cal.
Lydia, Sch.	140,886	1	39.00	37.00	1889	Benicia, Cal.	62.6	20.0	7.0	..... Kodiak, Alaska
Lydia Thompson, Str.	141,266	1	202.42	101.21	1893	Pt. Angeles, Wn.	92.7	22.6	8.0	Puget Sound Nav. Co., Seattle, Wash.
Lyman, Sch.	141,459	1	8.18	8.18	1896	Pt. Blak'ly, Wn.	30.2	9.9	4.0	J. B. Bages, Port Townsend, Wash.
Lyman D. Foster, Sch.	141,239	1	777.64	692.41	1892	Pt. Blak'ly, Wn.	184.0	39.0	15.4	W. G. Hall, San Francisco, Cal.
Lynx, Barge.	48,326	1	539.04	539.04	1898	San Fran., Cal. ....				..... San Francisco, Cal.
M. M. Morrill, Sch.	92,624	1	45.00	43.00	1894	Seattle, Wash.	60.0	18.3	7.8	F. P. Porter, Seattle, Wash.
M. P. Grace, Ship.	90,784	2	1,928.13	1,809.56	1875	Bath, Me.	229.9	42.1	19.7	B. Flint, Est., San Francisco, Cal.
Mabel, Str.	92,839	1	59.85	49.53	1898	Huntington, Or.	70.4	13.7	3.9	S. Locke, Huntington, Or.
Mabel & Edith, Sch.	90,946	1	48.59	46.19	1882	San Fran., Cal.	64.0	23.0	5.1	B. H. Tietzen, San Francisco, Cal.
Mabel Gray, Tern.	91,486	1	205.17	195.60	1882	Fairhaven, Cal.	119.0	31.4	8.7	G. D. Gray, San Francisco, Cal.
Madeline, Sch.	90,498	1	33.95	32.26	1873	San Fran., Cal.	54.0	20.5	4.5	J. J. North, San Francisco, Cal.
Maggie, 1 Str.	92,375	2	40.09	20.05	1891	Albion, Cal.	67.0	20.0	6.5	D. Duncan, San Francisco, Cal.
Maggie, Sch.	91,108	1	30.26	30.26	1878	Samish, Wash.	55.5	15.2	4.6	R. Jamieson, Tacoma, Wash.
Maggie C. Russ, Tern.	91,302	1	196.25	186.44	1881	Eureka, Cal.	117.0	30.0	9.0	Pacific Shipping Co., San Francisco, Cal.
M. V. Hartman, Sch.	97,899	1	35.85	34.07	1897	San Fran., Cal.	57.0	22.0	4.45	A. W. Scott, San Francisco, Cal.
Magis, Str.	92,538	1	67.04	33.25	1893	Pt. Blak'ly, Wn.	67.3	16.8	8.4	E. P. Blake, Seattle, Wash.
Magis, Sch.	91,112	1	11.48	10.91	1878	San Fran., Cal.	31.5	13.8	4.3	C. Gardner, San Francisco, Cal.
Magnolia, Sch.	90,015	1	47.06	44.71	1889	San Fran., Cal.	61.0	22.6	4.5	F. Kane, San Francisco, Cal.
Mahukona, Sch.	93,110	1	738.00	653.00	1901	Honolulu, Wash.	182.5	38.5	14.5	J. Rolph, Jr., San Francisco, Cal.
Maid of Orleans, Sch.	93,167	1	180.37	171.55	1882	San Fran., Cal.	110.2	29.5	9.8	Pac. Pack. & Nav. Co., San Francisco, Cal.
Mainlander, Str.	93,101	1	505.00	343.00	1890	Tacoma, Wash.	151.2	30.3	10.6	West. Steam Nav. Co., Tacoma, Wash.
Majestic, Str.	93,135	1	657.00	270.00	1901	Everett, Wash.	169.0	29.8	13.7	Puget Sound Nav. Co., Seattle, Wash.
Maksoff, Sch.	92,691	1	64.78	57.24	1896	Benicia, Cal.	73.5	22.7	7.6	J. Gale, Unalakleet, Alaska.
Malolo, Str.	93,037	1	92.00	24.00	1896	Benicia, Cal.	68.5	15.2	5.8	..... Honolulu, H. I.
Mame, Str.	91,957	1	73.31	43.03	1887	Shoshomish, Wash.	78.2	13.0	3.2	W. C. McMillin, Port Townsend, Wash.
Mandalay, Str.	93,977	1	438.60	266.96	1900	North Bend, Or.	142.4	33.6	12.0	Simpson Lumber Co., San Francisco, Cal.
Manila, Sch.	92,921	1	731.45	647.89	1889	North Bend, Or.	182.1	39.8	14.7	C. A. Hooper, San Francisco, Cal.
Margaret, Str.	92,860	1	520.00	260.00	1887	St. Michaels, Aka.	140.0	33.0	7.0	..... St. Michael, Alaska.
Margaret C. Sch.	92,117	1	58.63	55.71	1889	San Fran., Cal.	69.0	25.0	5.0	J. Erickson, San Francisco, Cal.

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Lgth	Brdth	Depth	
Margey, Str.	91,779	1	163.51	117.69	1889	E. Portland, Or.	64.4	25.1	8.5	A. O. Benjamin, Port Townsend, Wash.
Marguerite, Str.	92,849	1	29.39	19.99	1898	Olympia, Wash.	58.0	12.2	3.4	C. E. Bergman, Port Townsend, Wash.
Marguerite, Str.	92,812	1	44.00	34.00	1898	Florence, Or.	64.0	14.0	4.2	F. B. Jones, Yaquina, Or.
Maria, Str.	202,566	1	184.58	134.00	1887	Portland, Or.	115.0	24.0	5.9	F. B. Jones, Portland, Or.
Maria E. Smith, Tern	91,860	1	365.03	347.04	1881	Pt. Blak'y, Wn.	141.5	34.6	10.6	W. H. Smith, San Francisco, Cal.
Marie Chevallier, Sch.	91,803	1	48.47	46.07	1881	San Fran., Cal.	57.5	25.2	4.5	C. G. Wilson, San Francisco, Cal.
Hartie G. Haaven, Str.	91,847	1	25.00	12.00	1883	Astoria, Or.	47.5	13.7	5.1	D. A. Keyser, St. Michael, Alaska.
Marie, Sch.	92,862	1	5.00	5.00	1898	Seattle, Wash.	37.5	8.2	3.1	P. Mariscano, San Francisco, Cal.
Mar'a Mariscano, Sch.	91,770	1	21.16	20.11	1885	San Fran., Cal.	55.0	16.0	4.0	H. Topfer, San Francisco, Cal.
Marion, 2 Tern.	91,487	1	235.66	223.88	1882	San Fran., Cal.	123.0	31.8	10.3	North American T. & T. Co., Seattle, Wash.
Marion, Str.	93,154	1	43.00	29.00	1901	Tacoma, Wash.	56.5	17.3	6.2	W. Matson, Port Townsend, Wash.
Marion Chilcott, Ship.	92,827	1	1,737.75	1,510.78	1882	Glasgow, Scot.	248.6	37.8	23.3	J. D. Spreckels, San Francisco, Cal.
Mariposa, Str.	91,554	3	1,737.75	1,510.78	1882	Philadelphia, Pa.	314.0	41.0	17.3	W. W. Kintz, Port Townsend, Wash.
Market Boy, Nap.	92,660	1	8,158.23	1,339.10	1883	Hog Island, Wash.	33.0	10.4	2.3	Jas. Greig, San Francisco, Cal.
Marshfield, Str.	93,207	2	388.00	294.00	1901	Marshfield, Or.	163.3	33.7	21.0	J. Hicks, San Francisco, Cal.
Martha Davis, Bark.	90,510	2	870.52	779.68	1873	Boston, Mass.	80.0	18.5	4.0	T. A. Frederick Co., Seattle, Wash.
Martha Jane, Str.	93,217	1	50.85	45.45	1901	Sacramento, Cal.	105.5	28.8	8.6	C. Smith, San Francisco, Cal.
Martha W. Tuft, Sch.	90,924	1	173.45	164.79	1876	Eureka, Cal.	51.5	17.3	4.2	O. Olsen, San Francisco, Cal.
Martinez, Sch.	90,869	1	24.46	23.24	1876	San Fran., Cal.	72.5	24.0	3.5	J. Strand, Tacoma, Wash.
Mary, 2 Sch.	92,322	1	52.82	50.18	1891	Koserefski, Aka.	34.0	9.0	3.0	Weona T. & T. Co., San Francisco, Alaska.
Mary, Sch.	92,808	1	5.50	5.50	1895	Tacoma, Wash.	51.6	14.2	5.9	P. C. Hansen, San Francisco, Cal.
Mary, Sch.	92,985	1	23.00	23.00	1898	St. Michaels, Aka.	88.3	19.8	9.8	Pac. Marine Supply Co., San Francisco, Cal.
Mary, Sch.	93,216	1	62.00	38.00	1898	Philadelphia, Pa.	68.0	24.8	4.6	J. Newman, San Francisco, Cal.
M. A. Fernandez, Sch.	90,330	1	102.38	96.18	1889	San Fran., Cal.	110.2	29.4	9.7	Chas. Nelson, San Francisco, Cal.
Mary and Ida, Sch.	91,524	1	183.68	174.54	1883	San Fran., Cal.	75.0	24.0	5.5	C. A. Call, San Francisco, Cal.
Mary Bidwell, Sch.	90,892	1	65.78	62.50	1883	Eureka, Cal.	102.0	29.5	4.35	H. H. Davis, Port Townsend, Wash.
Mary Buhne, Sch.	91,895	1	147.05	139.71	1876	Rosalia, Cal.	55.0	14.5	4.35	The Chas. Nelson Co., San Francisco, Cal.
Mary C. Sch.	92,536	1	27.03	25.68	1893	Sausalito, Cal.	37.1	10.0	3.9	Pac. Pack. & Nav. Co., San Francisco, Cal.
Mary D. Str.	93,025	1	7.00	5.00	1900	Roche H., Wash.	120.0	32.8	9.0	G. E. Billings, San Francisco, Cal.
Mary Dodge, Tern.	91,475	1	243.04	230.90	1882	Eureka, Cal.	98.2	23.0	10.0	W. A. Higgins, San Francisco, Cal.
M. D. Hume, 2 Str.	91,304	1	164.78	108.01	1881	Ellensburg, Or.	58.6	21.0	5.2	J. J. North, San Francisco, Cal.
M. E. Anderson, Sch.	17,413	1	40.24	38.23	1860	San Fran., Cal.	202.2	40.2	15.9	S. Newell, San Francisco, Cal.
Mary E. Foster, Sch.	92,815	1	950.00	828.00	1898	Pt. Blak'y, Wn.	71.0	23.5	6.0	H. T. Hesselmeier, San Francisco, Cal.
Mary Etta, Sch.	92,884	1	64.45	61.25	1891	Alameda, Cal.	115.5	32.0	9.6	J. Tyson, San Francisco, Cal.
Mary E. Russ, Sch.	90,825	1	235.74	223.70	1875	Eureka, Cal.	53.0	21.0	3.7	C. T. Camm, Portland, Or.
Mary Francis, Sch.	90,880	1	29.74	28.27	1877	San Fran., Cal.	60.0	22.0	4.6	Wm. Peacock, Port Townsend, Wash.
M. Francis Cruz, Sch.	90,829	1	46.00	44.00	1874	San Pablo, Cal.	172.0	45.0	8.25	
Mary Garrett, Str.	91,085	1	810.28	728.14	1878	Stockton, Cal.	56.5	18.1	5.6	
Mary Sachs, Str.	92,847	1	35.21	31.25	1898	Bentley, Cal.	155.3	36.9	13.0	
Mary Winkelman, Bkn	91,368	1	522.32	482.23	1881	Seabeck, Wash.	38.0	11.8	4.1	
Mascott, Str.	92,253	1	267.35	199.46	1890	Portland, Or.				
Mascotte, Str.	92,147	1	18.15	9.08	1889	Seattle, Wash.				

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net						
Master Mariner, Sch.	90,894	1	39.24	37.30	1876	San Fran., Cal.	56.0	21.4	4.6	S. Estvald, San Francisco, Cal.
Matinee, Sch.	90,283	1	36.00	34.00	1871	San Fran., Cal.	51.6	18.6	5.6	....., Kodiak, Alaska.
Maud, Sch.	92,406	1	6.00	5.00	1892	Anacortes, Wash.	34.0	11.5	2.5	....., Port Townsend, Wash.
Maud, Barge.	51,210	1	31.86	30.27	1892	Astoria, Or.	47.6	17.4	4.3	J. W. Allie, Astoria, Or.
Maud S, Str.	92,744	1	161.00	161.00	1898	St. Michaels, Aka	36.0	7.3	1.8	G. W. Roberts, Port Townsend, Wash.
Maui, Str.	93,038	1	10.77	10.77	1896	Aberdeen, Wash.	17.1	0.31	0.3	....., Seattle, Wash.
Mauna Ala, Bark.	93,059	1	619.00	393.00	1897	San Fran., Cal.	171.0	31.0	14.3	....., Honolulu, H. I.
Mauna Loa, Str.	77,328	1	820.00	777.00	1893	Sunderland, Eng.	184.7	32.6	19.0	....., Honolulu, H. I.
Maweema, Tern.	92,884	1	850.00	536.00	1896	Pt. Blak'ly, Wh.	176.8	33.9	16.1	John Dolbeer, San Francisco, Cal.
Maxim, Sch.	90,948	1	453.64	392.64	1895	Fairhaven, Cal.	156.0	36.0	11.8	F. A. Wilkins, San Francisco, Cal.
May, Sch.	92,722	1	117.45	111.60	1876	Humboldt, Cal.	92.0	27.2	7.2	F. J. Manba, San Diego, Cal.
May, Gasoline.	92,777	1	9.48	5.58	1896	Eureka, Cal.	36.1	10.5	4.7	M. Both, Astoria, Or.
May D, Str.	92,853	1	9.12	6.20	1895	Astoria, Or.	36.1	8.8	3.5	M. E. Dawson, St. Michael, Alaska.
Mayflower, Str.	92,845	1	66.93	48.09	1898	San Fran., Cal.	61.5	16.5	4.4	J. E. Stevenson, Seattle, Wash.
Mayflower, Str.	92,818	1	82.00	56.00	1891	Astoria, Or.	65.8	17.4	6.0	....., Seattle, Wash.
May Flower, Sch.	92,005	1	22.10	16.04	1891	Seattle, Wash.	40.7	11.3	4.8	Mrs. R. Sparks, San Francisco, Cal.
May Queen, Str.	91,920	1	90.53	86.01	1888	San Fran., Cal.	80.5	26.5	6.2	N. E. Race, Port Townsend, Wash.
May West, Str.	92,896	1	86.37	47.99	1886	Seattle, Wash.	74.3	14.8	3.8	....., St. Michael, Alaska.
McLaurin, Ship.	91,116	1	134.00	67.00	1897	St. Michaels, Aka	96.0	18.0	3.5	P. Courtney, Agt., San Francisco, Cal.
Malacoth, 3 Sch.	17,725	1	1,212.00	1,212.00	1879	Newbu'v't, Mass	200.8	39.0	24.0	A. M. Simpson, San Francisco, Cal.
Malrose, Sch.	90,828	1	298.28	283.45	1867	North Bend, Or.	133.0	30.5	10.9	C. W. Stanton, San Francisco, Cal.
Melville Dollar, Str.	116,864	1	24.66	23.43	1875	W. B. City, Mich	52.0	20.4	3.6	Dollar S. S. Co., San Francisco, Cal.
Melvina, Sch.	92,142	1	1,380.55	1,103.03	1895	San Fran., Cal.	239.1	38.0	14.0	C. Johanson, San Francisco, Cal.
Merchant, Sch.	17,731	1	36.87	35.04	1889	San Fran., Cal.	62.0	23.3	3.25	M. Peterson, San Francisco, Cal.
Mercury, Ship.	16,948	1	18.58	17.66	1867	San Fran., Cal.	47.0	17.7	3.5	....., Seattle, Wash.
Merrin, Str.	92,054	2	1,156.18	1,050.29	1851	New York, N. Y.	193.0	39.0	22.5	L. Newell, San Francisco, Cal.
Meta, Sch.	91,843	1	119.72	71.67	1888	Stockton, Cal.	94.0	29.0	4.0	C. A. Nelson, San Francisco, Cal.
Metcor, 4 Sch.	92,304	1	38.65	36.72	1886	San Fran., Cal.	51.9	20.1	3.8	J. A. Hooper, San Francisco, Cal.
Metcor, Sch.	92,669	1	600.42	561.84	1891	Pt. Blak'ly, Wh.	177.3	38.4	13.5	D. D. Ryns, San Pedro, Cal.
Metcor, Str.	92,269	1	25.70	24.40	1895	Wilmington, Cal.	41.9	9.9	5.1	J. J. Martin, San Francisco, Cal.
Metcor, Str.	93,031	1	13.00	13.00	1893	Wilmington, Cal.	40.0	9.9	4.8	Alaska Exploration Co., San Francisco, Cal.
Metcor, Str.	93,118	1	68.58	40.51	1900	San Fran., Cal.	75.0	18.0	7.0	Globe Navigation Co., Seattle, Wash.
Metha Nelson, Sch.	92,726	1	2,301.00	1,565.00	1901	Toledo, Ohio	253.6	43.2	24.2	Chas. Nelson, San Francisco, Cal.
Mal, Str.	92,813	1	460.23	399.41	1896	Fairhaven, Cal.	156.0	36.0	11.9	C. H. Cain, Seattle, Wash.
Miami, Sch.	91,941	1	9.00	6.00	1894	Marysville, Wash	35.0	9.4	3.1	J. Peterson, San Francisco, Cal.
Miami, Sch.	92,845	1	38.11	36.21	1887	Alameda, Cal.	56.0	20.7	4.4	Union Packing Co., Tacoma, Wash.
Michigan, Str.	91,320	1	81.77	52.70	1898	Tillamook, Or.	71.6	18.5	6.9	Pac. Amer. Fisheries Co., Port Townsend.
Michigan, Barge.	51,303	1	42.09	21.05	1885	Portland, Or.	62.4	13.8	6.5	....., Seattle, Wash.
Mikado, Str.	91,826	1	450.00	450.00	1898	Unalakleet, Aka	63.0	11.3	5.0	C. E. Bergman, Port Townsend, Wash.
Mikado, Str.	150,883	1	23.08	19.90	1886	Portland, Or.	137.2	30.0	21.5	A. Meyer, San Francisco, Cal.
Mildred, Sch.	92,822	1	444.00	350.40	1886	Pt. Blak'ly, Wh.	157.0	36.0	12.2	W. Vall, San Pedro, Cal.
Mildred E, Sch.	92,866	1	464.16	411.78	1897	Fairhaven, Cal.	82.7	23.7	8.7	....., Honolulu, H. I.
			118.00	98.00	1884	Meteghan, N. S.				

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dks	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Lgth	Brdth	Depth	
Mile Morris, Sch....	93,041	1	13.00	13.00	1873	Oahu, H. I.	39.5	14.1	4.8	Honolulu, H. I.
Millie, Str....	91,633	1	12.97	6.49	1883	San Fran., Cal.	42.0	11.5	4.9	J. Wilder, San Francisco, Cal.
Milton, Str....	92,185	1	23.00	11.00	1889	Porter, O.	42.6	11.2	4.9	P. Pauson, San Francisco, Cal.
Milwaukee, Str....	92,865	1	396.00	219.00	1899	Ballard, Wash.	135.5	38.5	5.3	Milwaukee, Aka G. D. M. Co., Seattle, Wash.
Mindora, Sch....	91,130	1	6797.00	62.00	1801	Alameda, Cal.	125.9	38.7	14.0	H. Kirschmann, San Francisco, Cal.
Minerva, Barge....	51,288	1	25.65	25.65	1895	Ballard, Wash.	125.9	38.7	14.0	H. Kirschmann, San Francisco, Cal.
Mineola, 2 Str....	51,287	1	2,438.21	1,431.11	1885	Sunderland, Eng.	215.1	37.9	19.3	Pac. Improvement Co., San Francisco, Cal.
Mink, Barge....	51,287	1	539.04	438.04	1898	San Fran., Cal.	37.9	7.0	1.8	..... San Francisco, Cal.
Mink, Str....	92,673	1	14.00	3.00	1895	Florence, Or.	37.9	7.0	1.8	J. Busch, San Francisco, Cal.
Minnette, Sch....	90,396	1	23.81	32.63	1872	Ross Landg, Cal.	37.9	18.6	9.7	E. E. Caine, Seattle, Wash.
Minnie A. Caine, Sch.	93,086	1	890.00	779.00	1900	Seattle, Wash.	135.5	41.0	15.2	F. Feneira, San Francisco, Cal.
Mirth, Sch....	86,258	1	10.94	11.29	1893	Alameda, Cal.	34.5	11.2	7.0	Coquille R. & Aka. M. Co., Coos Bay, Or.
Mizpah, Sch....	92,843	1	64.97	41.38	1898	Prosper, Or.	70.0	22.9	7.0	W. J. Hall, Tacoma, Wash.
Mocking Bird, Str....	92,119	1	21.37	15.79	1889	Tacoma, Wash.	31.5	11.3	2.7	C. S. Butterfield, Tacoma, Wash.
Mocking Bird, Str....	92,854	1	82.90	29.00	1898	Tacoma, Wash.	31.5	11.3	2.7	C. S. Butterfield, Tacoma, Wash.
Modoc, Sch....	90,488	1	47.99	45.60	1873	San Fran., Cal.	65.0	23.8	4.5	A. L. Piper, San Francisco, Cal.
Modoc, Str....	92,854	1	779.05	779.05	1880	Oakland, Cal.	204.0	42.3	8.0	W. M. Thompson, Sec'y San Francisco, Cal.
Modoc, Str....	92,898	1	480.00	354.00	1898	Portland, Or.	155.0	35.3	4.8	J. Supple, Portland, Or.
Mohawk, Sch....	92,328	1	21.60	20.55	1891	S. Bend, Wash.	42.0	12.6	4.3	R. Stoehr, Portland, Or.
Mohawk, Str....	93,117	1	18.00	6.00	1901	San Fran., Cal.	53.0	14.3	5.0	F. Peterson, San Francisco, Cal.
Mohican, Str....	93,045	1	17.00	15.00	1890	Hilo, H. I.	40.6	8.7	4.4	Jas. Jas. Greig, Honolulu, H. I.
Mohican, 3 Bark....	90,820	1	82.12	78.54	1875	Chelsea, Mass.	160.2	35.2	19.8	Honolulu, H. I.
Moi Wahine, Sch....	93,042	1	95.00	75.00	1886	San Fran., Cal.	79.0	24.0	9.0	Honolulu, H. I.
Mokoli, Str....	93,043	1	72.00	49.00	1878	San Fran., Cal.	80.0	18.2	6.8	Honolulu, H. I.
Monarch, Str....	90,824	1	195.47	97.74	1875	San Fran., Cal.	109.0	26.0	12.7	Ships & Merc. Tugb. Co., San Francisco, Alaska.
Monarch, Barge....	51,304	1	153.00	87.00	1898	Benicia, Cal.	96.5	28.0	7.5	A. E. Stone, San Francisco, Cal.
Montesano, Str....	91,952	1	126.14	119.84	1887	Cosmopolis, Wash.	110.0	23.0	5.0	C. E. Burrows, Port Townsend, Wash.
Montesano, Str....	92,085	1	267.12	207.43	1889	Benicia, Cal.	136.5	28.0	7.5	C. E. Burrows, Port Townsend, Wash.
Montezuma, Sch....	91,400	1	112.00	87.00	1882	Astoria, Or.	79.6	17.8	4.4	L. H. Larsen, San Francisco, Cal.
Montezuma, Sch....	92,443	1	126.14	119.84	1887	Astoria, Or.	79.6	17.8	4.4	L. H. Larsen, San Francisco, Cal.
Montello, Str....	92,703	1	267.12	207.43	1889	Benicia, Cal.	136.5	28.0	7.5	C. W. Hatch, San Francisco, Cal.
Morning Star, Str....	91,705	1	471.05	394.05	1884	Bath, Me.	113.3	29.9	12.2	Alaska Exploration Co., San Francisco, Cal.
Morning Star, Str....	92,703	1	11.87	11.30	1896	Long Beach, Cal.	27.9	11.4	4.2	J. L. Nevins, Long Beach, Cal.
Morning Star, Str....	91,545	1	57.00	28.00	1883	Chinoock, Wash.	64.2	18.8	6.5	C. D. Stinson, Port Townsend, Wash.
Mt. Eden, Str....	90,826	1	73.66	62.76	1875	Stockton, Cal.	89.5	24.0	4.6	H. S. Diamond, San Francisco, Cal.
Mountain Buck, Str....	91,980	1	31.00	19.00	1888	Nasel, Wash.	50.0	15.0	4.2	J. Conniff, Astoria, Or.
Mountain View, Sch....	17,767	1	43.48	41.34	1867	San Fran., Cal.	61.0	24.2	4.55	J. Conniff, Seattle, Wash.
Mt. View, Str....	92,765	1	312.62	278.25	1885	San Fran., Cal.	162.0	36.8	11.85	S. Willie, Seattle, Wash.
Muriel, 4 Sch....	92,681	1	536.84	483.17	1895	Alameda, Cal.	162.0	36.8	11.85	G. U. Hind, San Francisco, Cal.
Myrtle, Sch....	92,866	1	19.46	13.62	1898	Paloalto, Wash.	44.4	13.8	6.5	P. F. Nordby, Port Townsend, Wash.
Myrtle H. Str....	93,917	1	49.00	33.00	1901	Nome, Aka.	48.5	19.0	4.7	H. Blokum, Seattle, Wash.
Mystic, Str....	92,301	1	31.73	30.16	1868	San Fran., Cal.	47.8	15.0	6.5	E. Stevensen, Seattle, Wash.

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dis.	Tonnage		When Built	Where Built	Dimensions		Managing Owner and Home Port
			Gross	Net			Lg'th.	B'r'd	
N.A.T. & T. Co., 3, Bg'e.	67,382	1	120.00	120.00	1897	St Michaels, Alaska	36.4	10.0	A. J. Clark, Seattle, Wash.
N. & S. Steyer	130,836	1	12.00	8.00	1899	Seattle, Wash.	38.0	8.1	F. P. Blake, Port Townsend, Wash.
N. D. Tobey, Str.	130,921	1	12.00	8.00	1901	Hadlock, Wash.	152.0	30.7	R. J. Young, Oregon City, Or.
N. R. Lang, Str.	130,884	1	528.00	381.00	1900	Portland, Or.	95.0	23.1	O. & N. Co., Ilwaco, Wash.
Nabcoita, Str.	130,793	1	149.00	112.00	1898	Portland, Or.	55.0	23.8	W. Cochran, San Francisco, Cal.
Naiad, Str.	130,691	1	11.24	8.04	1895	Benicia, Cal.	106.0	26.8	G. G. Pinkham, San Francisco, Cal.
Napa, City, Str.	130,662	1	178.87	162.92	1891	Benicia, Cal.	147.0	26.8	A. S. Jones, San Francisco, Cal.
Narrow Gauge, Sch.	130,441	1	23.73	22.52	1878	San Fran., Cal.	149.5	32.0	C. Goodall, San Francisco, Cal.
Narrows, 3 Str.	130,259	1	523.63	389.67	1892	San Fran., Cal.	43.0	20.0	C. Sorensen, San Francisco, Cal.
Nathalie, Sch.	130,886	1	30.53	28.39	1891	San Fran., Cal.	43.0	13.3	Margaret N. Hansen, San Francisco, Cal.
Nathalie, Sch.	130,893	1	14.86	14.11	1882	San Fran., Cal.	148.5	33.8	K. Liebig, San Francisco, Cal.
National City, 2 Str.	130,403	1	310.18	220.91	1888	San Diego, Cal.	34.7	11.6	Pacific Shipping Co., San Francisco, Cal.
Navajo, Yaw.	130,868	1	9.00	8.00	1900	San Fran., Cal.	126.0	32.0	H. K. Chamberlain, San Diego, Cal.
Navarro, 2 Str.	130,270	1	232.70	173.39	1887	Columbus, Wash.	57.0	10.2	R. O. Tobin, Columbus, Wash.
Nellie, Str.	130,247	1	43.34	41.16	1882	San Fran., Cal.	57.0	17.5	Banning, Wool Co., San Pedro, Cal.
Nellie, Str.	130,519	1	180.00	59.00	1889	Portland, Or.	34.6	26.0	O. R. & N. Co., Portland, Or.
Nellie, Str.	130,865	1	48.00	45.81	1897	Blotix, Miss.	63.5	23.0	G. Bettelhoussed, Port Townsend, Wash.
Nellie Carter, Sch.	130,297	1	160.00	122.00	1883	San Fran., Cal.	77.0	25.7	L. Turner, Seattle, Wash.
Nellie Coleman, Sch.	130,355	1	85.00	82.00	1883	Lanome, Me.	59.4	15.0	Alaska Company, Port Townsend, Wash.
Nellie Jensen, Str.	130,376	1	54.00	52.00	1889	San Juan I., Wh.	51.7	14.6	Pear Pearson, Seattle, Wash.
Nellie Martin, Str.	130,119	1	32.00	30.00	1871	Seattle, Wash.	67.0	23.0	H. C. Somers, San Francisco, Cal.
Nellie Pearson, Str.	130,907	1	32.00	23.00	1901	Everett, Wash.	38.8	13.0	W. Newell, Port Townsend, Wash.
Nellie Rich, Sch.	130,897	1	45.76	43.48	1874	Newell, Wash.	125.1	27.5	G. O. Bates, San Francisco, Cal.
Nellie Wood, Sch.	130,329	1	224.43	155.06	1894	San Fran., Cal.	84.2	24.5	J. W. Collins, Port Townsend, Wash.
Neposnet No. 2, Str.	130,224	1	235.87	176.53	1897	Ballard, Wash.	31.0	10.0	H. C. Harrison, Astoria, Or.
Neptune, Str.	130,150	1	9.00	7.00	1889	Astoria, Or.	69.1	12.7	J. Erikson, San Francisco, Cal.
Netsick, G. Str.	130,360	1	65.70	62.42	1883	San Fran., Cal.	35.4	12.0	Z. Doty, Port Townsend, Wash.
Nettie Belle, Sch.	130,213	1	11.00	11.00	1898	Oiga, Wash.	93.5	27.2	C. S. Jacobs, San Francisco, Cal.
Nettie Sundbor, Sch.	130,443	1	66.65	63.35	1889	Benicia, Cal.	74.0	25.4	C. F. Klink, San Francisco, Cal.
Newark, Str.	130,118	1	120.65	114.53	1887	Benicia, Cal.	268.0	42.0	Thos. Pollard, San Francisco, Cal.
Newark, Str.	130,118	1	1,783.80	1,345.00	1897	San Fran., Cal.	158.5	34.0	Pac. Pack. & Nav. Co., San Francisco, Cal.
Newark, 3 Str.	130,779	1	450.39	333.00	1898	San Fran., Cal.	133.5	23.5	J. J. Smith, San Francisco, Cal.
Newport, Str.	130,056	1	331.05	206.00	1875	San Fran., Cal.	168.0	38.0	W. A. Scammell, San Francisco, Cal.
Newport, Bark.	130,535	1	588.80	509.05	1882	San Fran., Cal.	121.5	31.0	O. Johnson, San Francisco, Cal.
Newson, Str.	130,396	1	77.00	64.00	1888	Benicia, Cal.	75.0	20.0	L. W. Curtis, Port Townsend, Wash.
Newton, Str.	130,913	1	208.20	150.05	1891	The Dalles, Or.	75.5	38.0	
N Western Queen, Str	130,773	1	120.70	83.20	1898				

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net						
New York, Barge....	67,880	1	450.00	450.00	1898	Unalaska, Aka.	51.0	14.1	3.8	J. Miller, San Francisco, Cal.
Nautic, Sch.....	18,385	1	21.38	20.33	1850	San Fran., Cal.	138.9	31.0	19.3	Alaska Packers' Ass'n, San Francisco, Cal.
Nibaud, Str.....	96,379	1	341.00	205.41	1898	Thomaston, Me.	148.2	33.6	11.2	F. A. Johnson, San Francisco, Cal.
Nicolas Thayer, Bark.	18,554	2	584.74	551.00	1897	Fairhaven, Cal.	55.3	16.9	4.0	Seattle, Wash.
Nimrod, Sch.....	15,392	1	27.82	26.44	1853	San Fran., Cal.	120.2	28.0	10.2	W. J. Hall, San Francisco, Cal.
No. 1, Barge.....	67,450	1	94.00	94.00	1901	Seattle, Wash.	161.2	36.7	12.8	A. J. Markwell, San Francisco, Cal.
No. 2, Barge.....	67,451	1	94.00	94.00	1901	Seattle, Wash.	65.5	21.7	5.6	G. Gray, San Francisco, Cal.
Neau, Str.....	116,748	1	290.00	221.00	1896	Pt. Blakly, Wn.	230.0	38.0	23.5	Indian Charley, Port Townsend, Wash.
Nekomis, Sch.....	130,700	1	545.68	462.42	1895	Pt. Blakly, Wn.	37.0	12.4	4.6	J. F. Boone, Portland, Or.
Nonpareil, Str.....	130,894	1	52.14	31.85	1900	San Fran., Cal.	153.5	32.6	11.2	A. M. Simpson, San Francisco, Cal.
Nome City, 2 Str.....	130,859	2	1,660.29	1,294.78	1900	Fairhaven, Cal.	125.4	30.3	17.9	Pacific Clipper Line, Seattle, Wash.
Nootka, Sch.....	130,544	1	10.55	10.03	1886	Pt. Blakly, Wn.	80.0	18.0	8.1	F. Korb, San Francisco, Cal.
Norma, Str.....	130,787	1	488.00	452.00	1891	Bridgeport, Ida.	166.0	29.0	10.3	C. W. Cook, Tacoma, Wash.
North Bend, Sch.....	130,106	1	376.16	357.9	1877	Coos Bay, Or.	38.0	9.0	4.6	Sitka, Alaska.
North Light, Bark...	18,463	2	384.65	365.42	1851	Rochester, Mass.	45.5	14.0	3.1	J. D. Fletcher, Tacoma, Wash.
North, Light, Str.....	130,789	1	18.00	10.00	1895	San Fran., Cal.	73.0	19.0	8.2	Alaska Fisherman's P. Co., Astoria, Or.
North, Light, Str.....	130,778	1	265.00	147.00	1898	Seattle, Wash.	35.4	11.4	4.4	J. F. Clark, San Francisco, Cal.
North Fork, Str.....	130,417	1	322.73	244.04	1888	Fairhaven, Cal.	147.9	36.8	13.9	F. W. Crawford, Port Townsend, Wash.
North King, St. S....	130,904	1	80.00	40.00	1891	Portland, Or.	74.4	19.0	6.5	Alaska Packers' Ass'n, San Francisco, Cal.
North Pacific, Str.....	18,685	1	488.73	345.45	1871	San Fran., Cal.	168.2	39.0	13.0	A. M. Simpson, San Francisco, Cal.
North Star, Sch.....	130,686	1	8.02	7.62	1895	Sitka, Aka.	39.9	10.6	5.6	Rosario Straits Pkg. Co., Port Townsend.
North Star, Sch.....	130,770	1	28.94	15.74	1898	San Fran., Cal.	135.3	27.8	3.9	J. W. Shaver, Portland, Or.
North Star, Barge....	67,386	1	174.00	15.74	1899	Tacoma, Wash.	150.0	33.2	10.5	Dollar S. S. Co., San Francisco, Cal.
North Star, Str.....	130,314	1	62.00	34.00	1899	Seattle, Wash.	44.4	12.5	4.3	Astoria, Or.
North West, Sch.....	130,311	1	8.00	7.00	1884	Kadiak, Aka.	61.5	19.8	5.2	A. E. Slate, Astoria, Or.
Northwest, Bktn.....	18,585	1	515.28	489.52	1889	Pt. Madison, Wn.	150.0	35.0	11.8	Chas. Nelson, San Francisco, Cal.
Northwest, 1 Str.....	130,459	1	324.91	301.98	1889	Tacoma, Wash.	265.0	41.5	16.0	Central Pacific R. Co., San Francisco, Cal.
Norwood, Str.....	130,812	1	92.00	63.00	1899	Portland, Or.	150.8	34.5	13.2	W. H. Thompson, Port Townsend, Wash.
Novelty, Str.....	130,305	1	56.59	33.73	1884	Tacoma, Wash.	34.9	9.1	3.8	G. H. George, Astoria, Or.
Novelty, 4 Sch.....	130,347	1	592.00	584.20	1886	North Bend, Or.	210.6	39.8	24.7	J. J. Loggie, San Francisco, Cal.
Novice, Str.....	130,781	1	14.00	10.00	1889	Anacortes, Wash.	210.6	39.8	24.7	Geo. Plummer, San Francisco, Cal.
No Wonder, 1 Str.....	130,458	1	269.66	235.30	1889	Portland, Or.	210.6	39.8	24.7	
Noyo, 2 Str.....	130,395	1	316.35	229.84	1887	Astoria, Or.	210.6	39.8	24.7	
Nuten, Str.....	130,896	1	22.00	15.00	1901	Astoria, Or.	210.6	39.8	24.7	
O. K., Str.....	155,139	1	62.54	47.76	1887	Astoria, Or.	210.6	39.8	24.7	
O. M. Kellogg, Sch....	155,227	1	393.36	373.70	1892	Fairhaven, Cal.	210.6	39.8	24.7	
Oakland, Str.....	19,447	1	1,672.24	1,108.45	1875	Oakland, Cal.	210.6	39.8	24.7	
Oakland, Bark.....	19,142	1	483.64	507.72	1865	Bath, Me.	210.6	39.8	24.7	
Occidental, Str.....	155,403	1	10.00	7.00	1901	Astoria, Or.	210.6	39.8	24.7	
Occidental, Term.....	155,095	1	209.19	173.67	1884	Fairhaven, Cal.	210.6	39.8	24.7	
Occidental, Ship.....	19,410	2	1,533.88	1,409.52	1874	Bath, Me.	210.6	39.8	24.7	

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Lgth.	B'rd.	Depth	
Ocean Spray, Sch....	19,146	I	83.02	71.13	1865	Mendocino, Cal.	80.0	25.5	7.0	N. Iversen, San Francisco, Cal.
Oceanic Vance, Tern....	155,157	I	445.88	384.64	1888	Pt. Blakely, Wn.	148.5	36.1	11.3	N. C. Strong, Port Townsend, Wash.
Ocean Wave, Str....	155,207	I	724.00	507.00	1891	Portland, Or....	180.0	29.0	9.0	Santa Fe Terminal Co., Astoria, Or
Ocklahoma, Str....	155,310	I	676.55	565.83	1897	Portland, Or....	181.1	35.5	8.3	O. R. & N. Co., Portland, Or.
Oil City, Str....	155,318	I	718.68	409.06	1898	Seattle, Wash....	176.1	35.4	5.9	R. Moran, Seattle, Wash.
Okanogan, Sch....	155,323	I	721.39	606.09	1895	Pt. Blakely, Wn.	186.4	39.0	13.9	C. Walker, Port Townsend, Wash.
Oiga, Sch....	155,176	I	46.00	43.00	1890	Benicia, Cal....	63.5	20.0	7.0	Seattle, Wash.
Oiga, Sch....	155,084	I	21.00	19.00	1883	Kadiak, Alaska.	47.0	14.8	5.0	Kadiak, Alaska.
Oiga, 4 Str....	155,175	I	498.60	473.67	1889	Eureka, Cal....	164.0	36.0	12.2	C. Nelson, San Francisco, Cal.
Oiga, 2 Str....	155,180	I	15.42	7.71	1889	San Fran., Cal....	42.0	12.8	5.2	Trans Alaska Co., San Francisco, Cal.
Oiga Matilda, Sch....	155,282	I	29.90	25.10	1895	Vallejo, Cal....	50.0	16.7	3.5	W. N. Anderson, San Francisco, Cal.
Oliver J. Olson, Sch....	155,339	I	667.00	596.00	1883	Aberdeen, Wash.	177.5	38.6	14.0	O. J. Olson, San Francisco, Cal.
Olympian, Str....	155,089	I	2,837.00	1,730.00	1883	Glasgow, Scot....	335.0	38.2	19.5	Northern Pac. S. S. Co., Tacoma, Wash.
Olympic, Bark....	155,228	I	1,419.60	1,083.20	1882	Wilmington, Del.	261.5	40.0	12.5	O. R. & N. Co., Portland, Or.
Olympic, Str....	155,385	I	1,469.00	1,053.00	1892	Bath, Me....	224.4	42.1	21.3	E. R. Dimond, Sec'y, San Francisco, Cal.
Olympic, Barge....	53,317	I	142.00	88.00	1900	Ballard, Wash....	85.5	25.0	6.5	National Bank, Seattle, Wash.
Olympic, Yawl....	155,343	I	783.00	783.00	1901	Hoquiam, Wash....	57.2	17.7	8.0	F. M. Lathe, Seattle, Wash.
Omega, Bktn....	155,262	I	33.00	33.00	1899	Seattle, Wash....	163.3	39.3	13.5	J. W. Kruse, San Francisco, Cal.
Onelda, Str....	155,406	I	584.00	522.00	1894	North Bend, Or	54.5	14.5	5.3	J. Madison, San Francisco, Cal.
Onisbo, Str....	155,384	I	21.00	7.00	1901	San Fran., Cal....	178.1	36.6	6.5	Cal. Trans. Co., San Francisco, Cal.
Onward, Str....	19,180	I	632.21	605.30	1900	Wood Is., Cal....	165.0	33.0	6.6	A. Nelson, San Francisco, Cal.
Onward, Sch....	155,428	I	388.80	337.30	1877	San Fran., Cal....	134.1	25.4	10.0	C. Doe, San Francisco, Cal.
Onyx, Sch....	155,133	I	276.00	255.00	1901	Parkersburg, Or	55.5	17.3	3.8	Stika, Alaska.
Oregon, Str....	155,347	I	25.00	24.00	1886	Chicau, Aka....	48.4	25.5	3.5	F. Aldrich, Arlington, Or.
Oregon, Bark....	19,450	I	1,430.60	1,294.01	1875	Arlington, Or....	205.6	39.1	24.1	Wm. E. Mighel, San Francisco, Cal.
Oregon, Str....	19,483	I	24,335.38	1,642.28	1878	Bath, Me....	283.0	37.4	23.4	White Star S. S. Co., Seattle, Wash.
Orient, Sch....	19,144	I	312.17	296.60	1865	Chester, Pa....	126.5	30.0	10.7	B. H. Tietjen, San Francisco, Cal.
Oriole, Ship....	19,418	I	1,888.45	1,556.60	1874	Brunswick, Me....	220.1	42.2	24.9	Abbie B. Blair, San Francisco, Cal.
Oriole, Str....	155,260	I	7.00	6.00	1898	Bath, Me....	32.7	9.2	3.5	La Conner T. & T. Co., Seattle, Wash.
Oscar B, Str....	155,344	I	23.00	16.00	1899	N. Whatcom, Wn	55.6	14.5	5.6	E. Stevenson, Seattle, Wash.
Oswego, Str....	155,079	I	42.86	21.43	1883	Tacoma, Wash....	56.5	14.6	6.4	La Taylor, Portland, Or.
Otelia Pederson, Str....	155,469	I	789.00	678.00	1901	Portland, Or....	186.2	38.1	15.0	J. Pederson, San Francisco, Cal.
Otter, Barge....	53,289	I	289.44	289.44	1898	Everett, Wash....	130.0	31.6	9.6	Chas. Nelson, San Francisco, Cal.
Ottillie Fjord, Sch....	155,282	I	261.04	247.99	1892	Fairhaven, Cal....	130.0	31.6	9.6	Chas. Nelson, San Francisco, Cal.
Pacific, 2 Str....	150,482	I	63.32	31.66	1890	Benicia, Cal....	75.0	20.6	8.2	Alaska Packers, Ass'n, San Francisco, Cal.
Pactolus, Bark....	150,552	I	1,673.00	1,674.00	1891	Bath, Me....	237.7	41.2	24.0	W. E. Mighel, San Francisco, Cal.
Paddy Scow....	54,534	I	18.00	18.00	1899	Anacortes, Wash	45.4	14.3	3.6	Fidalgo Is. Canning Co., Pt. Townsend, Wash
Palmyra, Bark....	150,056	I	1,859.55	1,223.43	1876	Bath, Me....	187.9	38.8	24.2	C. Walker, Port Townsend, Wash.
Panamia, Ship....	150,173	I	1,582.95	1,444.07	1879	Freeport, Me....	216.6	41.3	23.2	A. Anderson, San Francisco, Cal.
Parkersburg, Sch....	150,298	I	1,237.72	1,117.54	1883	Parkersburg, Or	100.0	21.0	6.5	C. D. Doe, San Francisco, Cal.
Pasadena, 2 Str....	150,410	I	300.38	235.56	1887	San Fran., Cal....	141.0	31.1	10.5	Kerckhoff Cuzner M. & L. Co., Los Angeles.

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Length	Breadth	Depth	
Pathfinder, Scr.....	150,887	1	86.19	71.49	1900	Benicia, Cal.....	81.0	24.0	9.5	G. Scott, San Francisco, Cal.
Paul & Willie, Sch.....	150,331	1	35.68	32.88	1884	San Fran., Cal.....	57.8	21.7	4.5	Mrs. A. Pohl, San Francisco, Cal.
Pauline Warner, Str.....	150,771	1	112.00	66.00	1898	Seattle, Wash.....	71.7	21.3	3.4	C. A. Warner, Seattle, Wash.
Pearl, Str.....	150,267	1	10.15	8.07	1897	Portland, Or.....	44.7	10.2	3.6	Wm. Eccles, Viento, Or.
Pearl, Sch.....	150,761	1	87.64	83.26	1886	Benicia, Cal.....	62.4	14.5	7.5	Alaska Commercial Co., San Francisco, Cal.
Pearl, Sch.....	150,343	1	75.27	53.91	1884	Seattle, Wash.....	62.4	14.5	3.4	A. J. Edwards, Port Townsend, Wash.
Pearl, Sch.....	150,601	1	10.57	10.01	1884	Seattle, Wash.....	35.0	11.6	4.7	J. M. Weston, Mary Island, Alaska.
Peerless, Tern.....	150,157	1	24.85	23.25	1892	Pt. Townsend, Wn.....	127.0	33.0	9.25	James Tuft, San Francisco, Cal.
Peerless, Str.....	150,622	1	21.98	18.93	1893	Eureka, Cal.....	50.0	11.0	5.0	W. Brown, Eureka, Cal.
Peerless, Str.....	150,275	1	57.00	39.00	1901	Houghton, Wash.....	71.8	17.2	5.2	J. F. Curtis, Port Townsend, Cal.
Pelican, Str.....	150,927	1	23.00	11.00	1882	San Fran., Cal.....	51.5	16.2	5.9	Redondo R. Co., Los Angeles, Cal.
Penelope, Sch.....	150,484	1	43.08	40.91	1898	San Diego, Cal.....	61.6	18.8	8.8	H. E. Huffman, San Francisco, Cal.
Penguin, Sch.....	150,686	1	32.55	31.88	1894	Ballard, Wash.....	51.5	15.4	7.1	H. Manney, Seattle, Wash.
Perhaps, Str.....	150,515	1	16.00	5.65	1891	Seattle, Wash.....	37.0	11.0	3.8	H. E. Ward, Seattle, Wash.
Progress, Str.....	150,575	1	16.00	11.00	1891	Aberdeen, Wash.....	40.0	10.6	3.5	E. L. Harrison, Port Townsend, Wash.
Prospector, Str.....	150,784	1	36.00	32.00	1890	Seattle, Wash.....	61.3	14.6	5.2	J. P. Parker, Seattle, Wash.
Prosper, Str.....	150,781	1	168.00	82.00	1898	Pt. Townsend, Wn.....	84.1	18.6	9.6	Puget Sound Nav. Co., Port Townsend, Wash.
Prosper, 4 Sch.....	150,540	1	605.09	512.08	1891	Pt. Blak'ly, Wn.....	177.0	38.5	13.5	G. E. Billings, San Francisco, Cal.
Prosper, Sch.....	150,586	1	24.42	23.20	1892	Anacortes, Wash.....	45.0	14.6	6.0	G. Stokes, San Francisco, Cal.
Prosper, Tern.....	150,599	1	24.32	23.30	1892	Pero Mill, Or.....	128.0	32.6	8.0	Alaska Packers' Ass'n, San Francisco, Cal.
Prosperous, Sch.....	150,987	1	34.43	32.73	1867	San Fran., Cal.....	56.5	21.0	4.25	J. W. Taylor, San Francisco, Cal.
Prussia, Ship.....	20,221	1	1,212.12	1,131.02	1868	Bath, Me.....	184.2	36.53	23.95	Pt. Blakely Mill Co., San Francisco, Cal.
Puritan, Str.....	150,392	1	25.43	14.18	1887	Portland, Or.....	68.4	15.0	5.0	W. Peacock, Port Townsend, Wash.
Queen, Str.....	20,627	1	24.00	16.31	1900	San Fran., Cal.....	54.0	14.5	5.5	Alaska Packers, Ass'n, San Francisco, Cal.
Queen, 2 Str.....	20,587	1	2,727.80	1,672.15	1882	Philadelphia, Pa.....	331.2	38.5	21.2	Pacific Coast S. S. Co., San Francisco, Cal.
Queen, Sch.....	20,588	1	2,777.76	2,400.03	1882	San Fran., Cal.....	124.0	31.0	10.0	A. P. Lorenzen, San Francisco, Cal.
Queen, Str.....	20,605	1	79.00	54.00	1892	Astoria, Or.....	64.0	16.0	6.0	Oscar C. Wilson, Seattle, Wash.
Queen, Str.....	20,634	1	7.00	7.00	1901	Avalon, Cal.....	26.1	8.6	3.7	R. W. Ozmun, Los Angeles, Cal.
Queen City, Str.....	20,590	1	67.31	33.66	1883	Seattle, Wash.....	69.9	16.6	8.4	W. C. Stetson, Seattle, Wash.
Queen of Pacific, Sch.....	20,626	1	52.00	50.00	1900	Ballard, Wash.....	65.0	18.6	7.5	Parkland Packing Co., Tacoma, Wash.
Quickstep, Str.....	20,617	1	443.00	3.00	1898	Seattle, Wash.....	123.8	24.8	4.4	A. E. Cain, Seattle, Wash.
Quickstep, Bktn.....	20,575	1	423.37	379.23	1876	Pt. Ludlow, Wn.....	148.6	34.3	13.5	S. B. Peterson, San Francisco, Cal.
Quinnat, Str.....	20,651	1	31.00	14.00	1901	San Fran., Cal.....	65.0	15.0	6.6	Alaska Packers, Ass'n, San Francisco, Cal.
R. C. Slade, 4 Sch.....	111,393	1	673.00	601.00	1900	Aberdeen, Wash.....	176.6	38.7	14.0	S. E. Slade, San Francisco, Cal.
R. Eacret, Sch.....	111,073	1	32.11	30.51	1894	Pt. Angeles, Wn.....	49.5	16.0	6.9	B. Fish, Port Angeles, Wash.
R. I. Morse, Sch.....	110,888	1	23.92	22.73	1892	Fairhaven, Wash.....	45.0	14.2	6.6	F. Findley, Port Townsend, Wash.
R. Miller, Str.....	110,893	1	83.00	56.00	1891	Astoria, Or.....	75.1	18.5	6.8	J. W. Babbidge, Astoria, Or.
R. P. Elmore, Str.....	110,856	1	114.47	57.24	1890	Astoria, Or.....	67.2	18.0	7.5	Alaska Inter. Is. Nav. Co., Port Townsend.
R. P. Rithet, Bark.....	111,287	2	1,097.61	1,043.71	1892	Glasgow, Scot.....	200.5	38.0	19.0	J. Greig, San Francisco, Cal.

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Length	Breadth	Depth	
R. R. Thompson, Str.	110,367	1	1,158.04	912.06	1878	The Dalles, Or.	215.0	38.0	9.6	O. R. & N. Co., Portland, Or.
R. W. Bartlett, # Sch	110,945	1	521.56	473.55	1891	Fairhaven, Cal.	160.0	37.0	12.0	J. H. Bruce, San Francisco, Cal.
Ragnoli, Str.	121,642	1	97.00	48.00	1865	San Fran.	92.0	23.0	8.2	....., San Francisco, Cal.
Ragnoli, Str.	111,286	1	73.00	49.00	1900	Ballard, Wash.	81.3	18.2	8.6	....., Seattle, Wash.
Rainier, Str.	110,748	1	179.55	109.83	1887	Seattle, Wash.	81.4	20.9	9.7	T. Pollard, San Francisco, Cal.
Rainier, Sch.	111,268	1	870.00	870.00	1900	Hogiam, Wash.	204.9	38.0	13.6	Thomas Pollard, San Francisco, Cal.
Ralph J. Long, Sch.	110,776	1	90.15	85.64	1888	Bandon, Or.	98.7	27.4	5.7	J. Johnson, San Francisco, Cal.
Ralph L. 2 Str.	110,901	1	15.42	14.65	1891	San Fran.	42.0	12.8	5.2	Louis Sloss, Jr., San Francisco, Cal.
Rambler, Sch.	110,694	1	15.85	15.06	1882	San Fran.	37.4	14.0	4.0	W. H. Crosby, San Pedro, Cal.
Rambler, Str.	110,859	1	9.00	9.00	1880	Tacoma, Wash.	37.1	12.2	4.2	....., Wrangell, Alaska.
Ramona, 2 Sch.	110,890	1	34.74	31.50	1886	Chinook, Wash.	37.0	12.6	6.5	P. McGowan, Chinook, Wash.
Ranger, Str.	111,240	1	144.87	72.44	1887	Benicia, Cal.	58.5	19.6	2.6	Wm. McCarthy, San Francisco, Cal.
Ranger, St. S.	111,746	1	43.00	10.00	1889	North Bend, Cal.	106.4	22.9	11.2	Humboldt L. Mfg. Ass'n, Eureka, Cal.
Rapid Transit, Str.	110,900	1	192.00	91.00	1891	Hogiam, Wash.	58.8	14.0	4.9	H. A. Benham, Port Townsend, Wash.
Rattler, Str.	110,627	1	52.08	40.56	1884	Adelock, Wash.	76.0	19.5	7.4	F. R. Reed, North Yakima, Wash.
Reaper, Bark.	110,270	1	1,468.56	1,358.43	1876	Bath, Me.	211.6	33.2	3.2	La Conner T. & T. Co., Seattle, Wash.
Red Bluff, Str.	111,067	1	246.15	185.33	1894	Sacramento, Cal.	150.5	33.0	4.0	Puget Sound Com. Co., San Francisco, Cal.
Redlands, Str.	111,178	1	14.14	9.59	1898	San Fran.	50.1	12.1	3.6	J. H. Roberts, San Francisco, Cal.
Redwood, Sch.	111,626	1	26.59	25.29	1852	Pulgas R'ch, Cal.	55.0	18.8	3.7	M. R. Roberts, Jr., San Francisco, Cal.
Reef, Str.	111,095	1	12.37	8.34	1894	Ballard, Wash.	34.3	9.1	3.5	A. J. Williams, Seattle, Wash.
Regina S, Sch.	111,149	1	15.67	15.67	1897	Utsalady, Wash.	39.6	13.1	4.7	J. Gibson, Seattle, Wash.
Regulator, Str.	110,935	1	68.39	65.55	1893	San Fran.	68.0	26.0	5.4	A. Von Tegen, San Francisco, Cal.
Reliance, Str.	110,842	1	153.00	104.00	1900	The Dalles, Or.	157.0	34.4	7.7	R. E. Crowe, The Dalles, Or.
Reliance, Sch.	110,695	1	94.21	47.11	1889	Portland, Or.	118.0	20.5	6.5	H. Glenn, The Dalles, Or.
Relief, 2 Str.	110,955	1	64.56	61.34	1886	Benicia, Cal.	92.2	21.2	10.5	G. Kneass, San Francisco, Cal.
Relief, 1 Str.	111,544	1	204.37	102.14	1884	Benicia, Cal.	69.5	24.0	6.5	J. D. Spreckles Bros. & Co., San Francisco, Cal.
Renown, Sch.	111,117	1	145.64	119.66	1864	Stockton, Cal.	112.0	22.5	12.6	J. D. Spreckles Bros. & Co., San Francisco, Cal.
Repeat, Sch.	111,169	1	42.31	38.00	1896	Alameda, Cal.	99.0	24.5	5.2	California Trans. Co., San Francisco, Cal.
Reporter, Tern.	110,298	1	455.69	410.69	1897	North Bend, Or.	43.5	22.0	4.0	S. Menzies, San Francisco, Cal.
Reporter, Str.	111,254	1	350.62	333.09	1876	PT. Ludlow, Wn.	148.9	34.4	12.0	J. W. Kruse, Coos Bay, Or.
Reporter, Str.	111,254	1	38.37	26.10	1900	San Fran.	141.4	34.0	10.6	E. K. Wood Lumber Co., San Francisco, Cal.
Rescue, Str.	110,236	1	88.00	60.00	1899	Portland, Or.	80.0	16.5	5.5	Alaska Packers, Ass'n, San Francisco, Cal.
Resolute, Str.	110,236	1	27.00	10.00	1899	Portland, Or.	69.0	22.0	5.0	Jas. Good, Portland, Or.
Resolute, Str.	110,635	1	172.28	86.14	1875	S. Bend, Wash.	48.6	14.4	5.2	A. J. Bale, Port Townsend, Wash.
Resolute, Str.	110,747	1	302.49	242.66	1887	Benicia, Cal.	104.0	26.0	12.1	Ship'r & Mer. Tugb. Co., San Francisco, Cal.
Resolute, Str.	110,747	1	91.00	44.00	1887	Mill No. 4, Or.	134.7	29.0	5.5	Piper Aden Goodall Co., San Francisco, Cal.
Restless, Str.	110,844	1	24.00	12.00	1900	Portland, Or.	104.0	23.5	10.8	Pacific Clipper Line, Seattle, Wash.
Restless, Sch.	110,540	1	27.57	18.75	1889	Astoria, Or.	52.0	12.5	5.0	H. G. Campbell, Portland, Or.
Retta, Str.	111,226	1	18.16	17.26	1882	Prosper, Or.	43.3	12.9	5.2	Puget Sound Pack Co., Pt. Townsend, Wash.
Retriever, Bktn.	110,507	1	26.00	18.00	1899	San Fran.	33.5	11.0	3.7	S. Burtis, Santa Barbara, Cal.
			547.71	470.52	1881	Seabeck, Wash.	161.8	37.0	13.5	E. P. Blake, Port Townsend, Wash.

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Deck	Tonnage		When Built	Where Built	Dimensions		Managing Owner and Home Port
			Gross	Net			Lg. ft.	B. ft.	
Richard Holyoke, Str.	110,335	1	181.81	90.94	1877	Seabeck, Wash.	115.6	24.3	E. P. Blake, Seattle, Wash.
Richard III, Bark.	21,900	1	985.00	918.00	1859	Portsmouth, N. H.	175.3	33.7	B. Dunsuir, Port Townsend, Wash.
Richmond, Str.	111,283	1	135.63	77.74	1900	San Fran., Cal.	99.5	23.5	Santa Fe Terminal Co., San Francisco, Cal.
Rio Rey, Sch.	110,864	1	84.17	79.97	1890	Alameda, Cal.	79.0	25.2	G. S. Beadle, San Francisco, Cal.
Rio Vista, Str.	111,279	1	13.00	10.19	1900	Stockton, Cal.	46.0	9.0	W. E. Elliott, San Francisco, Cal.
Rival, 1 Str.	110,792	1	426.01	363.15	1888	San Fran., Cal.	139.0	32.0	R. Dollar, San Francisco, Cal.
Rival, 2 Str.	110,065	1	26.29	13.15	1869	Stockton, Cal.	66.0	14.5	J. L. Willcutt, San Francisco, Cal.
Rival, 3 Str.	110,065	1	34.00	33.00	1869	Stockton, Cal.	35.5	21.7	C. Sorensen, San Francisco, Cal.
Ronanoke, Str.	21,908	1	2,354.00	1,654.00	1882	Chester, Penn.	267.0	40.5	H. Weaver, San Francisco, Cal.
Roberts, Str.	110,515	2	48.00	24.00	1887	San Fran., Cal.	75.5	18.2	E. Sparks, San Francisco, Cal.
Robbie Hunter, Sch.	21,943	1	57.36	54.52	1870	San Fran., Cal.	65.6	23.7	Pacific Packing & Noy Co., Portland, Or.
Robert Barron, Str.	111,335	1	13.00	9.00	1901	Astoria, Or.	44.4	10.3	Dollar S. Co., San Francisco, Cal.
Robert Dollar, Sch.	112,282	1	1,389.48	845.85	1900	Hogus, Wash.	199.0	38.0	J. Olson, San Francisco, Cal.
Robert Henry, Sch.	110,975	1	40.06	38.06	1892	San Fran., Cal.	62.0	22.0	D. Thompson, San Francisco, Cal.
Robert & Jennie, Sch.	110,601	1	50.39	47.91	1883	San Fran., Cal.	62.5	23.3	Pacific Cold Storage Co., Tacoma, Wash.
Robert Kerr, Str.	111,180	1	718.68	409.06	1898	Seattle, Wash.	176.1	35.4	G. U. Hind, San Francisco, Cal.
Robert P. Hind, Sch.	111,232	1	561.19	520.10	1899	Alameda, Cal.	162.8	26.8	Robt. Levers Co., San Francisco, Cal.
Robert Lewis, 4 Sch.	110,827	1	732.88	669.28	1888	Pt. Blak'ly, Wn.	185.1	39.2	J. Tuft, San Francisco, Cal.
Robert Seales, 4 Sch.	110,794	1	600.50	504.69	1888	Pt. Blak'ly, Wn.	182.8	38.0	J. J. Smith, San Francisco, Cal.
Robert Sudden, Bkn.	110,750	1	616.02	517.01	1887	Pt. Blak'ly, Wn.	167.0	37.7	J. Sutherland, Seattle, Wash.
Rob Roy, Sch.	111,076	1	16.62	10.15	1894	Ballard, Wash.	29.0	11.5	J. M. McMillin, Tacoma, Wash.
Rob Roy, Sch.	111,258	1	17.00	17.00	1883	Oakha, H. I.	45.0	15.0	J. O. B. Gunn, Sec'y, San Francisco, Cal.
Rocke Harbor, Str.	95,951	1	87.90	59.23	1888	Tacoma, Wash.	50.4	15.6	John Barron, San Francisco, Cal.
Rockaway, Str.	110,444	1	34.17	17.09	1880	San Fran., Cal.	61.0	16.3	Rock Is. & Alaska Min. Co.,
Rock Island, Sch.	110,667	1	28.93	27.49	1884	San Fran., Cal.	54.6	22.2	Rock Is. & Alaska Min. Co.,
Rock Is., No. 1, Str.	111,117	1	533.00	536.00	1898	Seattle, Wash.	124.0	32.2	Rock Is. & Alaska Min. Co.,
Rock Is., No. 2, Str.	111,117	1	933.00	936.00	1898	Seattle, Wash.	100.3	32.2	Rock Is. & Alaska Min. Co.,
Rock of Cashel, Sch.	21,653	1	32.08	22.00	1862	San Fran., Cal.	49.9	19.2	Wm. Watson, San Francisco, Cal.
Roderick, Dhru, Bark.	111,289	2	1,534.05	1,432.93	1874	Sunderd, Eng.	257.1	40.2	Puget Sound Pack. Co., Pt. Townsend, Wash.
Rosevelt, Sch.	56,665	1	22.00	22.00	1900	Anacortes, Wash.	52.0	15.9	E. R. Diamond, San Francisco, Cal.
Rosamond, Sch.	111,283	1	1,030.12	2,985.54	1900	Benicia, Cal.	201.0	41.0	Puget Sound Nav. Co., Seattle, Wash.
Rosalie, Str.	111,022	1	318.51	226.63	1893	Alameda, Cal.	136.5	27.0	N. Nilson, San Francisco, Cal.
Rosalie, Sch.	21,753	1	39.06	37.12	1868	San Fran., Cal.	60.0	22.3	J. Erikson, San Francisco, Cal.
Rose, Sch.	110,915	1	6.00	6.00	1891	Astoria, Or.	35.4	10.9	J. F. Rodley, Portland, Or.
Rosie H. Sch.	110,981	1	73.41	69.77	1892	Alameda, Cal.	72.0	25.5	B. H. Tietjen, San Francisco, Cal.
Rogue River, Str.	111,351	1	80.00	50.00	1901	Portland, Or.	65.5	16.4	R. B. Fithian, San Francisco, Cal.
Rough & Ready, Sch.	21,622	1	56.00	53.20	1896	San Fran., Cal.	69.0	24.4	Alaska Packers, Ass'n, San Francisco, Cal.
Rover, Sch.	111,131	1	20.86	19.82	1884	Sitka, Ak.	48.0	14.6	B. T. Tietjen, San Francisco, Cal.
Rover, 2 Sch.	3,672	1	76.87	69.61	1895	Benicia, Cal.	76.0	22.7	R. B. Fithian, San Francisco, Cal.
Rover, 3 Sch.	111,344	1	44.00	30.00	1901	Hilo, H. I.	62.0	14.0	Alaska Packers, Ass'n, San Francisco, Cal.
Royal, 2 Str.	110,898	1	59.07	29.54	1891	Benicia, Cal.	75.0	20.6	B. T. Tietjen, San Francisco, Cal.
Roy Somers, Tern	110,919	1	314.60	298.87	1891	Farhaven, Wash.	140.0	34.0	J. Erikson, San Francisco, Cal.
Ruby, Sch.	110,779	1	50.88	48.84	1888	San Fran., Cal.	69.0	21.2	

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Length	Breadth	Depth	
Rufus E. Wood, Bark.	110,263	1	1,477.21	1,331.64	1875	Deering, Me.	200.1	14.0	24.5	W. E. Mighell, San Francisco, Cal.
Rustler, Str.	111,024	1	47.96	39.98	1893	Seattle, Wash.	65.4	14.3	5.7	G. H. Emerson, Juneau, Alaska.
Rustler, Str.	111,192	1	18.00	12.00	1887	La Conner, Wn.	44.8	11.4	5.4	J. C. Hart, Port Townsend, Wash.
Ruth, Str.	111,744	1	30.00	15.00	1887	Hogiam, Wash.	53.0	13.4	4.9	J. C. Hart, Coos Bay, Or.
Ruth, Str.	111,155	1	14.00	10.00	1873	San Fran., Cal.	40.6	10.0	2.9	A. W. Beadle, San Francisco, Cal.
Ruth, Str.	111,184	1	277.26	237.31	1898	San Fran., Cal.	151.0	35.5	10.7	O. R. & N. Co., Portland, Or.
Ruth, Str.	111,103	1	515.31	388.02	1895	Portland, Or.	156.4	34.0	4.6	G. E. Billings, San Francisco, Cal.
Ruth E. Godfrey, Sch.	111,309	1	397.00	497.00	1900	Pt. Blak'y, Wn.	169.6	37.6	13.4	Alaska Packers, Ass'n, San Francisco, Cal.
B. Mathews, Str.	116,660	1	290.57	164.61	1895	San Fran., Cal.	101.0	20.0	5.5	Alex Frank, San Francisco, Cal.
C. Allen, Bark.	116,212	1	690.00	632.00	1888	Bath, Me.	177	23.7	13.3	California Shipping Co., San Francisco, Cal.
Danielson, Sch.	116,945	1	87.55	83.20	1883	Grubbs Mill, Or.	91.9	27.6	6.8	John Ploog, San Francisco, Cal.
D. Carleton, Ship.	116,345	2	1,882.26	1,671.00	1890	Rockport, Me.	240.0	44.4	25.4	E. R. Dimond, Sec'y, San Francisco, Cal.
E. Perry, Sch.	23,920	1	39.44	37.50	1869	San Fran., Cal.	66.5	22.3	4.65	L. H. Hubbard, San Francisco, Cal.
G. Wilder, Bktn.	116,145	1	604.03	557.77	1887	Pt. Blak'y, Wn.	166.8	37.3	14.0	The Chas. Nelson Co., San Francisco, Cal.
N. Casle, Bktn.	116,130	1	541.81	464.69	1886	Fairhaven, Cal.	175.5	35.5	13.7	A. Frank, San Francisco, Cal.
T. Alexander, Sch.	161,931	1	779.00	695.00	1899	San Fran., Cal.	100.7	31.2	6.5	J. O. Storey, Cascade Locks, Or.
Sacramento, Sch.	23,658	1	130.81	124.27	1868	Fairhaven, Wash.	142.0	34.0	9.0	Alaska Commercial Co., San Francisco, Cal.
Sadie, 3 Sch.	116,374	1	310.51	294.99	1890	Portland, Or.	80.0	15.0	4.7	S. H. Harmon Lbr Co., San Francisco, Cal.
Sadie, 2 Sch.	116,696	1	54.28	33.30	1895	San Fran., Cal.	150.0	30.0	8.0	Pac. Pack & Nav. Co., San Francisco, Cal.
Sadie, 1 Sch.	116,831	1	276.26	145.40	1893	South Bend, Cal.	139.3	33.8	12.8	E. W. Tallant, Astoria, Or.
Sailor, Box, Tern	115,914	1	328.17	316.09	1883	San Fran., Cal.	152.4	19.5	4.5	C. A. Hooper, San Francisco, Cal.
Salmador, Sch.	23,179	1	30.35	28.85	1860	San Fran., Cal.	78.0	17.8	6.5	C. F. Adams, Portland, Or.
Salmador, Sch.	116,573	1	57.71	35.08	1889	Pillar Rock, Wn.	41.0	12.0	2.7	D. Stofens, San Francisco, Cal.
Salmador, Sch.	116,573	1	57.71	35.08	1889	Pillar Rock, Wn.	41.0	12.0	2.7	R. W. Omann, San Diego, Cal.
Salvador, 1 Sch.	116,364	1	467.77	385.55	1890	Eureka, Cal.	160.0	36.0	11.6	J. H. Roberts, Sec'y, San Francisco, Cal.
Salvador, 2 Sch.	116,800	1	377.26	237.31	1898	San Fran., Cal.	158.0	33.6	11.4	J. H. Roberts, Sec'y, San Francisco, Cal.
Samson, Str.	116,848	1	278.00	189.00	1898	Portland, Or.	116.4	25.4	15.6	J. H. Roberts, Sec'y, San Francisco, Cal.
Samson, Sch.	116,844	1	16.00	15.00	1898	Astoria, Or.	41.4	13.5	3.7	P. W. Meeks, San Francisco, Cal.
San Buenavista, Sch.	116,507	1	180.82	171.80	1876	Fairhaven, Cal.	107.0	30.0	8.5	M. Reed, Astoria, Or.
San Diego, Sch.	116,143	1	31.92	30.32	1887	San Fran., Cal.	155.0	18.0	5.2	C. McNell, Jr., San Francisco, Cal.
San Joaquin No. 2, Str.	115,417	1	242.77	133.32	1877	San Fran., Cal.	142.0	32.5	5.2	G. Johnson, Port Townsend, Wash.
San Joaquin No. 3, Str.	115,545	1	226.05	138.72	1877	San Fran., Cal.	142.0	32.2	3.7	Pacific Improvement Co., San Francisco, Cal.
San Joaquin No. 4, Str.	116,068	1	365.43	292.96	1885	Sacramento, Cal.	163.0	34.0	2.5	Santa Fe Terminal Co., San Francisco, Cal.
San Jose, Sch.	23,209	1	35.20	30.59	1851	San Fran., Cal.	67.5	18.6	2.2	J. R. Hamby, San Francisco, Cal.
San Jose, Sch.	116,087	1	51.61	51.88	1886	Benicia, Cal.	67.5	20.0	7.0	
San Jose, Sch.	116,087	1	51.61	51.88	1886	Benicia, Cal.	67.5	20.0	7.0	
San Lorenzo, Str.	23,203	1	192.00	166.00	1898	San Fran., Cal.	101.0	24.0	4.3	
San Mateo, Sch.	116,263	1	97.93	83.45	1874	San Fran., Cal.	89.0	24.0	4.3	
San Mateo, Sch.	116,972	2	2,926.61	1,926.37	1888	San Slicids, Eng.	317.5	40.2	24.1	
San Pablo, Str.	117,002	1	1,584.71	956.32	1900	San Fran., Cal.	226.15	36.2	17.6	
San Pedro, Str.	116,896	1	456.59	358.46	1899	Aberdeen, Wash.	163.1	34.0	11.7	

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Length	Breadth	Depth	
San Rafael, Sch.	116,321	1	44.94	42.70	1890	San Rafael, Cal.	61.0	23.0	4.5	J. E. Fritancoste, San Francisco, Cal.
Santa Ana, Str.	116,944	1	1,950.98	814.45	1900	Marshfield, Or.	132.4	36.2	23.8	The Chas. Nelson Co., San Francisco, Cal.
Santa Barbara, Str.	117,003	1	1,695.93	627.58	1900	San Fran., Cal.	135.5	37.5	13.5	J. R. Hanly, San Francisco, Cal.
Santa Clara, Ship.	115,437	1	1,835.93	1,453.74	1876	San Fran., Cal.	135.5	37.5	13.5	Alaska Packers, Ass'n, San Francisco, Cal.
Santa Cruz, 2 Str.	23,553	1	511.22	360.74	1868	San Fran., Cal.	133.0	31.2	25.5	Pacific Coast S. S. Co., San Francisco, Cal.
Santa Cruz, Sch.	116,559	1	45.68	43.40	1893	Benicia, Cal.	38.0	14.3	19.6	A. J. Cairre, San Francisco, Cal.
Santa Fe, Str.	116,559	1	51.79	25.90	1888	Soronado, Cal.	38.0	14.3	19.6	Spickels Bros., San Diego, Cal.
Santa Lucia, Str.	116,632	1	15.88	7.20	1895	San Fran., Cal.	68.0	13.0	5.0	T. S. Douly, San Francisco, Cal.
Santa Monica, Str.	116,604	1	15.95	8.04	1893	Stockton, Cal.	49.0	12.1	4.5	J. Newman, San Francisco, Cal.
Santa Paula, Sch.	116,964	1	650.00	632.00	1900	Fairhaven, Cal.	153.1	30.3	16.1	The Union Oil Co. of Cal., Los Angeles, Cal.
Santa Rita, Str.	117,021	1	13.00	9.00	1901	Astoria, Or.	38.3	11.1	3.4	Pacific Packing & Nav. Co., Portland, Or.
Santa Rosa, 3 Str.	115,979	1	2,416.78	1,335.60	1884	Chester, Penn.	326.5	40.9	20.7	C. Goodall, San Francisco, Cal.
Santiago, Bark.	115,973	1	979.25	928.39	1885	Belfast, Ireland.	198.1	33.1	19.8	W. Gibson, San Francisco, Cal.
Sarah, Sch.	115,582	1	24.54	23.34	1877	San Fran., Cal.	53.0	20.0	2.9	J. J. North, San Francisco, Cal.
Sarah, Str.	116,856	1	1,211.00	728.00	1898	Unalaska, Ala.	222.8	42.0	6.0	..... St. Michael, Alaska.
Sarah, Sch.	23,202	1	7.00	7.00	1863	Rogers L'g, Cal.	29.0	11.8	3.6	J. W. Shaver, Portland, Or.
Sarah Dixon, Str.	116,470	1	369.58	278.84	1892	Portland, Or.	140.0	26.0	6.5	J. A. Campbell, Port Townsend, Wash.
Sarah M. Renton, Str.	116,284	1	137.14	68.57	1889	Pt. Blak'ly, Wn.	91.5	20.0	10.0	J. B. Stetson, San Francisco, Cal.
Sausalito, Str.	116,635	1	1,766.00	1,372.82	1894	San Fran., Cal.	236.0	38.0	15.0	J. W. Troup, Portland, Or.
Scavotka, Str.	116,812	1	484.11	291.76	1898	Pt. Blak'ly, Wn.	146.0	30.0	5.5	J. R. Hanly, San Francisco, Cal.
Scotia, 2 Str.	116,230	1	181.52	132.75	1888	San Fran., Cal.	122.0	30.6	9.5	R. Nissen, Seattle, Wash.
Sea Foam, Str.	116,553	1	19.00	6.00	1893	Ilwaco, Wash.	46.0	11.0	5.4	A. Scopienich, Seattle, Wash.
Sea Gull, Str.	116,889	1	44.73	28.85	1899	San Fran., Cal.	84.5	18.5	4.5	P. A. McKinney, Seattle, Wash.
Sea Gull, Str.	116,421	1	18.17	17.27	1891	Fairhaven, Cal.	48.0	17.0	4.6	W. E. McNeill, San Francisco, Cal.
Sea Gull, Sch.	116,473	1	12.13	11.53	1891	Eagle Har., Wn.	36.4	12.9	5.0	Ship'r & Mer. Tugb. Co., San Francisco, Cal.
Sea King, Bark.	115,572	1	1,491.94	1,361.13	1877	Dowdoham, Me.	210.6	39.4	24.1	..... San Francisco, Cal.
Sea King, Str.	115,923	1	181.26	90.63	1883	San Fran., Cal.	108.0	26.1	11.5	..... Wrangel, Alaska.
Seal, Barge	57,959	1	289.44	289.44	1898	San Fran., Cal.	42.7	14.3	4.7	J. W. Hart, Sec'y, San Francisco, Cal.
Sea Light, Sch.	116,637	1	20.00	19.00	1894	Hoquiam, Wash.	107.0	22.0	13.0	Ship'r & Mer. Tugb. Co., Juneau, Alaska.
Sea Lion, 2 Str.	116,013	1	185.53	92.77	1884	Camden, N. J.	61.9	13.2	4.8	J. W. Curry, San Francisco, Cal.
Seafin, Str.	115,924	1	41.00	20.00	1883	San Fran., Cal.	50.0	18.5	8.5	J. E. Orth, Tacoma, Wash.
Sea Prince, Str.	117,025	1	58.00	27.00	1901	San Fran., Cal.	100.5	22.0	11.8	Empire Trans. Co., Seattle, Wash.
Sea Queen, Str.	116,251	1	111.15	55.58	1888	Portland, Or.	45.0	10.0	5.0	C. J. Alexander, Seattle, Wash.
Seaside, Str.	116,062	1	31.46	19.02	1885	Seattle, Wash.	33.3	12.3	5.9	..... St. Michael, Alaska.
Seaside, Str.	115,805	1	13.03	6.52	1880	Seattle, Wash.	17.1	35.4	6.0	..... St. Michael, Alaska.
Seattle, Str.	116,817	1	718.68	409.06	1898	Seattle, Wash.	176.1	35.4	6.0	..... St. Michael, Alaska.
Seattle No. 1, Barge	116,853	1	446.00	346.00	1897	St. Michaels, Ala.	148.0	26.0	6.0	Ship'r & Mer. Tugb. Co., San Francisco, Cal.
Seattle No. 3, Str.	116,854	1	548.00	326.00	1898	Dutch Har., Ala.	148.0	26.0	6.0	Pacific Coast S. S. Co., San Francisco, Cal.
Seattle No. 4, Barge	57,992	1	600.00	600.00	1883	Dutch Har., Ala.	148.0	26.0	6.0	..... Port Townsend, Wash.
Sea Witch, Str.	115,943	1	74.12	37.06	1883	San Fran., Cal.	77.9	20.0	10.0	.....
Sehome, Sch.	116,415	1	11.00	10.00	1881	Sehome, Wash.	38.2	12.0	4.3	.....
Sehome, Str.	116,301	1	692.00	615.00	1891	Portland, Or.	192.4	32.2	10.5	.....
Sehome, Sch.	116,940	1	680.36	620.81	1899	N. Whatcom, Wn.	182.3	37.9	13.3	J. Tyson, San Francisco, Cal.

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Length	Breadth	Depth	
Selkirk, Str.	116,884	1	223.00	172.00	1899	Wenatchee, Wash.	110.8	24.5	5.5	C. C. Griggs, Port Townsend, Wash.
Selma, Sch.	116,925	1	29.00	29.00	1893	Victoria, B. C.	50.0	14.0	2.2	....., Unalaska, Alaska.
Sec. W. B. All'n, Str.	116,888	1	10.00	10.00	1898	St. Michaels, Alaska.	50.0	14.0	2.2	A. R. Hunt, Port Townsend, Wash.
Sentinel, Str.	116,809	1	82.75	56.27	1898	Tacoma, Wash.	101.7	17.0	4.4	Dollar S. S. Co., San Francisco, Cal.
Sequoia, 2 Str.	116,825	1	411.15	258.76	1898	Pt. Brage, Cal.	151.0	33.7	12.0	The Chas. Nelson Co., Wilmington, Cal.
Serena Thayer, Sch.	115,099	1	206.08	195.78	1872	Pt. Discov'y, Wn.	124.8	30.0	9.8	L. A. Pederson, San Francisco, Cal.
Servia, Ship	115,972	3	1,866.87	1,738.58	1883	Bath, Me.	234.1	41.1	18.1	Anville Gold Mining Co., San Francisco, Cal.
Seven Sisters, Sch.	116,196	1	129.25	122.81	1888	Benicia, Cal.	97.0	27.2	7.5	T. A. Matthews, Port Townsend, Wash.
Shamrock, Sch.	116,967	1	32.00	32.00	1900	Ballard, Wash.	56.2	16.3	6.9	P. A. Piper, San Francisco, Cal.
Shasta, Sch.	116,506	1	95.96	91.17	1892	Benicia, Cal.	82.0	26.0	6.1	O. Pack & Nav. Co., San Francisco, Cal.
Shellkoff, Str.	116,967	1	173.24	101.57	1901	Alameda, Cal.	135.0	23.0	9.6	A. Orley, San Francisco, Cal.
Shel, Sch.	117,106	1	16.31	13.25	1900	Alviso, Cal.	50.0	14.5	3.5	Shirley Trans. Co., Port Townsend, Wash.
Shirley, Barge	116,487	1	1,049.07	996.62	1850	Medford, Mass.	170.0	36.8	24.1	A. Sperry, Port Townsend, Wash.
Shuttle, Sch.	23,287	1	6.54	6.22	1892	Lopez Pt., Wash.	30.5	9.2	4.2	T. Cryle, Port Townsend, Wash.
Sierra, Sch.	23,190	1	27.88	26.49	1854	Marysville, Cal.	50.0	17.5	5.0	Oceanic S. S. Co., San Francisco, Cal.
Sierra, 2 Str.	116,996	4	5,989.41	3,756.85	1900	Philadelphia, Pa.	400.0	50.2	18.1	A. M. Simpson, San Francisco, Cal.
Signal, Str.	116,180	1	475.94	392.44	1887	North Bend, Or.	150.0	34.4	13.8	J. C. Bull, Jr., Eureka, Cal.
Silva, Str.	115,548	1	41.19	26.98	1873	Eureka, Cal.	72.8	16.8	3.0	H. L. Storey, San Diego, Cal.
Silver Gate, Str.	116,193	1	528.40	459.17	1888	Coronado, Cal.	137.0	30.0	11.0	J. C. Eschen, San Francisco, Cal.
Sinram, Ship	115,575	2	1,656.68	1,495.15	1877	Freeport, Me.	215.4	42.9	24.25	C. Walker, Port Townsend, Wash.
Skagit, Bktn.	115,970	1	506.96	443.81	1883	Pt. Ludlow, Wn.	156.2	38.3	12.3	H. H. McDonald, Seattle, Wash.
Skamokawa, Barge	58,109	1	318.00	190.00	1898	Seattle, Wash.	125.5	25.7	4.6	C. H. Fuller, Portland, Or.
Snow & Burgess, Bark	115,616	1	262.00	235.00	1901	Portland, Or.	119.0	31.2	7.5	A. P. Lorentzen, San Francisco, Cal.
Sockeye, Str.	116,724	2	1,655.49	1,528.67	1878	Thomaston, Me.	228.5	41.5	24.7	Alaska Packers, Ass'n, San Francisco, Cal.
Solano, Sch.	116,050	1	14.64	9.96	1896	Blaine, Wash.	45.5	13.6	4.6	A. L. Piper, San Francisco, Cal.
Solano, Str.	115,694	1	66.56	63.24	1885	Benicia, Cal.	74.0	25.0	5.5	W. V. Huntington, Pt., San Francisco, Cal.
Solano, Str.	115,694	1	3,549.31	3,057.13	1879	San Fran., Cal.	407.0	65.5	17.4	E. Johnson, San Francisco, Cal.
Solano, Sch.	23,050	1	728.00	692.00	1901	Benicia, Cal.	176.0	40.0	14.5	California Trans. Co., San Francisco, Cal.
Solferino, Bark	23,650	1	19.63	18.65	1868	San Fran., Cal.	41.5	17.5	4.2	Oceanic Steamship Co., San Francisco, Cal.
Sonoma, Str.	115,298	2	1,063.12	997.67	1867	Chelsea, Mass.	177.5	36.2	22.4	J. W. Baker, Tacoma, Wash.
Sonoma, Str.	117,009	2	3,055.62	2,504.74	1874	Rebuilt S. F., Cal.	135.5	29.0	6.5	A. T. Johnson, Port Angeles, Wash.
Sophie, Str.	115,056	1	6,253.37	3,934.31	1900	Philadelphia, Pa.	400.0	50.2	21.3	R. Sudden, San Francisco, Cal.
Sophie Johnson, Sch.	117,054	1	26.29	16.54	1884	Lake City, Wash.	41.7	11.3	4.7	Chast. H. Butler & Co., San Francisco, Cal.
Sophie Christen, Sch.	116,099	1	40.00	10.00	1901	Pt. Angeles, Wn.	54.9	16.2	8.4	E. J. Dodge, San Francisco, Cal.
Sophie, 2 Sch.	116,663	1	42.17	40.17	1895	Pt. Blak'ly, Wn.	64.5	22.8	4.5	West Coast S. S. Co., San Francisco, Cal.
South Bay, Sch.	117,097	1	469.00	469.00	1901	Tacoma, Wash.	155.5	25.5	11.3	Vance Redwood Ibr. Co., Eureka, Cal.
South Coast, 2 Str.	116,173	1	301.45	225.18	1887	San Fran., Cal.	131.5	32.2	10.5	P. B. Cornwell, San Francisco, Cal.
Spartan, Ship	115,311	1	197.10	187.25	1869	Oakland, Cal.	119.5	28.5	9.7	C. R. Walker, Port Townsend, Wash.
Spokane, Sch.	116,378	1	1,448.64	1,334.98	1874	Boston, Mass.	207.06	40.5	13.2	O. R. & N. Co., Portland, Or.
Spokane, Str.	116,876	1	639.39	570.96	1890	Pt. Blak'ly, Wn.	183.0	38.5	6.3	....., Seattle, Wash.
Standard, Sch.	116,507	1	676.00	515.00	1898	Texas Ferry, Wn.	160.4	38.6	3.7	....., Seattle, Wash.
			8.00	8.00	1892	Ballard, Wash.	33.0	10.7		

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND REG.	Official No.	No. Dcs.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Length	Breadth	Depth	
Standard, Ship	115,634	1	1,534.00	1,461.00	1878	Bath, Me.	212.0	40.0	24.0	Jas. Brown, San Francisco, Cal.
Stanley, Tern	116,947	1	355.00	253.00	1900	Fairhaven, Cal.	143.3	32.3	10.7	McCullum Fishing Co., San Francisco, Cal.
Star, Sch.	115,182	1	47.83	45.26	1873	Vallero, Cal.	62.2	23.0	4.5	J. P. Peterson, San Francisco, Cal.
Star of Bengal, Bark	116,974	1	1,877.00	1,694.00	1873	Belfast, Ireland	262.8	43.2	23.5	J. J. Smith, San Francisco, Cal.
Star of France, Ship	116,975	1	1,644.00	1,522.00	1877	Belfast, Ireland	258.0	38.0	22.8	J. J. Moore, San Francisco, Cal.
Star of Italy, Ship	116,976	1	1,644.00	1,571.00	1877	Belfast, Ireland	251.5	38.2	22.9	Alaska Packers, Ass'n, San Francisco, Cal.
Star of Russia, Ship	116,977	1	1,981.00	1,892.00	1874	Belfast, Ireland	275.5	42.2	24.2	Alaska Packers, Ass'n, San Francisco, Cal.
Starling, Str.	116,807	1	15.00	10.00	1898	Tacoma, Wash.	53.5	12.5	4.9	Tacoma, Wash.
State of Calif., 2 Str.	115,945	2	2,266.03	1,260.06	1879	Philadelphia, Pa.	300.0	35.6	24.4	C. Goodall, Ast., San Francisco, Cal.
State of Wash'n, 2 Str.	116,272	2	605.25	449.68	1889	Philadelphia, Pa.	170.4	31.3	7.0	Pacific Coast S. S. Co., San Francisco, Cal.
Steethead, Str.	116,836	1	38.00	26.00	1898	Fairhaven, Wash.	56.1	14.8	6.9	Pac. H. Stevenson, Seattle, Wash.
Stevenson No. 1, B'ge	57,973	1	91.00	91.00	1898	Seattle, Wash.	80.0	22.0	6.0	Elizabeth Stevenson, Seattle, Wash.
Stevenson No. 2, B'ge	57,974	1	87.00	88.00	1898	Seattle, Wash.	80.0	22.0	5.3	Elizabeth Stevenson, Seattle, Wash.
Stevenson No. 3, B'ge	57,993	1	78.00	78.00	1898	Seattle, Wash.	70.0	22.2	5.2	J. Mignath, Seattle, Wash.
Stevenson No. 5, B'ge	57,994	1	67.00	67.00	1898	Seattle, Wash.	70.0	22.2	5.2	J. Mignath, Seattle, Wash.
St. David, Ship	115,568	1	1,595.00	1,476.00	1887	Bath, Me.	213.4	40.6	17.2	W. E. Mighell, San Francisco, Cal.
St. Francis, Ship	115,835	1	1,898.00	1,757.00	1882	Bath, Me.	123.4	41.8	17.7	W. E. Mighell, San Francisco, Cal.
St. James, Bark	115,949	1	1,578.00	1,453.00	1883	Bath, Me.	218.5	41.3	23.7	W. E. Mighell, San Francisco, Cal.
St. Joseph, Str.	116,863	1	69.00	69.00	1898	St. Michaels, Alaska	96.0	22.5	4.5	J. Greig, San Francisco, Cal.
St. Katherine, Bark	116,862	2	1,263.66	1,153.09	1890	Bath, Me.	202.8	39.3	19.1	W. W. Dodge, St. Michael, Alaska.
St. Michael, Str.	115,974	1	28.06	14.03	1879	San Fran., Cal.	49.0	12.0	4.1	Empire Trans. Co., Seattle, Wash.
St. Michael, Str.	116,816	1	718.88	409.06	1898	Seattle, Wash.	176.1	35.4	5.9	St. Michael, Alaska.
St. Mich'l No. 1, B'ge	57,983	1	228.00	228.00	1896	St. Michaels, Alaska	.....	.....	.....	St. Michael, Alaska.
St. Mich'l No. 2, B'ge	57,984	1	228.00	228.00	1896	St. Michaels, Alaska	.....	.....	.....	St. Michael, Alaska.
St. Mich'l No. 3, B'ge	57,985	1	228.00	228.00	1897	St. Michaels, Alaska	.....	.....	.....	St. Michael, Alaska.
St. Mich'l No. 4, B'ge	57,986	1	479.00	471.00	1898	St. Michaels, Alaska	.....	.....	.....	St. Michael, Alaska.
St. Mich'l No. 5, B'ge	57,998	1	350.00	350.00	1898	St. Michaels, Alaska	.....	.....	.....	St. Michael, Alaska.
St. Mich'l No. 6, B'ge	58,051	1	240.00	240.00	1898	St. Michaels, Alaska	.....	.....	.....	St. Michael, Alaska.
St. Mich'l No. 7, B'ge	58,052	1	240.00	240.00	1898	St. Michaels, Alaska	.....	.....	.....	St. Michael, Alaska.
St. Mich'l No. 8, B'ge	58,052	1	366.00	366.00	1898	Unalaska, Alaska	.....	.....	.....	St. Michael, Alaska.
St. Mich'l No. 9, B'ge	58,054	1	240.00	240.00	1898	Unalaska, Alaska	.....	.....	.....	St. Michael, Alaska.
St. Mich'l No. 10, B'ge	58,054	1	240.00	240.00	1898	Unalaska, Alaska	.....	.....	.....	St. Michael, Alaska.
St. Olof, Sch.	116,907	1	34.00	34.00	1898	Match Mat'h, Wn	61.0	16.0	5.0	B. Hendrickson, Port Townsend, Wash.
St. Paul, 2 Str.	116,826	2	2,440.20	1,866.20	1890	San Fran., Cal.	280.0	38.1	19.6	Pac. Pack. & Nav. Co., San Francisco, Cal.
St. Paul, Sch.	116,316	1	48.00	46.00	1890	Bentica, Cal.	63.5	20.0	7.0	Kadiak, Alaska.
St. Thomas, Sch.	116,808	1	62.47	59.36	1898	San Fran., Cal.	71.4	25.0	5.5	L. H. Larsen, San Francisco, Cal.
St. Vallier, Str.	116,883	1	92.00	53.00	1900	Needles, Cal.	74.3	17.1	3.4	Santa Ana M. Co. Needles, Cal.
Stimson, Sch.	115,518	1	25.76	12.88	1892	Ballard, Wash.	49.2	14.0	4.9	F. S. Stimson, Seattle, Wash.
Stimson, Str.	116,992	1	693.00	605.00	1900	Ballard, Wash.	182.0	39.5	13.8	Stimson Mill Co., Seattle, Wash.
Success, Str.	116,543	1	9.91	5.47	1892	Seattle, Wash.	29.3	9.9	3.3	Pacific Packing & Nav. Co., Seattle, Wash.
Sue H. Elmore, Str.	116,997	1	13.14	6.58	1898	Pt. Blak'ly, Wn.	46.0	10.5	5.4	A. W. Knighton, Port Townsend, Wash.
Sulphat, Str.	20,631	1	232.00	131.00	1900	Portland, Or.	90.7	23.8	8.0	Pacific Navigation Co., Tillamook, Or.
Sun Flower, Str.	116,848	1	31.00	14.00	1901	San Fran., Cal.	.....	.....	.....	San Francisco, Cal.
			57.00	36.00	1898	St. Michaels, Alaska	60.0	11.5	2.7	St. Michael, Alaska.

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND REG.	Official No.	No. Decks	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Length	Breadth	Depth	
Surf Duck, Sch.	116,697	1	7.37	7.37	1895	Pl. Blak'ly, Wn.	30.1	9.3	6.2	R. J. Huston, Port Townsend, Wash.
Susie, Str.	116,855	1	1,211.00	1,222.00	1898	Unalaska, Ala.	222.8	42.0	4.2	St. Michael, Alaska.
Sussie M. Plum'r, Sch.	116,860	1	920.00	808.00	1890	Thamoston, Me.	181.5	37.6	17.6	San Francisco, Cal.
Sycamore, Sch.	23,207	1	34.57	32.85	1850	Sacramento, Cal.	56.5	19.7	5.0	San Francisco, Cal.
Sylph, Str.	117,055	1	14.00	10.00	1901	Astoria, Or.	48.3	11.1	3.7	J. Reid, Astoria, Or.
T. Alonzo, Sch.	24,480	1	23.14	22.00	1866	San Fran., Cal.	48.0	18.0	3.8	W. A. Bender, San Francisco, Cal.
T. C. Power, Str.	145,790	1	819.00	481.00	1898	Dutch Har., Ala.	192.3	32.6	6.0	St. Michael, Alaska.
T. C. Reed, Str.	145,744	1	237.00	149.00	1897	Aberdeen, Wn.	116.2	20.8	5.0	H. Weinhard, Port Townsend, Wash.
T. C. Walker, Str.	145,403	1	786.90	702.19	1885	Stockton, Cal.	200.0	38.8	9.0	S. Newell, San Francisco, Cal.
T. Ellis, Sch.	145,609	1	34.25	32.60	1891	San Pedro, Cal.	42.6	13.6	4.7	A. F. Dill, San Diego, Cal.
T. J. Potter, Str.	145,489	1	659.41	589.60	1888	Portland, Or.	230.0	35.1	10.6	O. R. & N. Co., Portland, Or.
T. M. Richardson, Str.	145,489	1	36.00	24.00	1888	Oreania, Or.	64.0	14.5	5.0	J. Green, Seattle, Wash.
T. W. Lake, Str.	145,700	1	191.54	130.25	1895	Ballard, Wash.	96.5	23.9	5.9	J. Green, Seattle, Wash.
Tacoma, Str.	145,114	1	239.57	128.42	1876	San Fran., Cal.	138.5	24.8	12.1	E. P. Blake, Seattle, Wash.
Tacoma, Ship	145,257	1	1,738.64	1,671.90	1881	Bath, Me.	222.2	41.0	17.7	Alaska Packers, Ass'n, San Francisco, Cal.
Tacoma, Str.	145,793	1	2,811.00	1,689.00	1870	Dumbarton, Scot.	316.2	39.2	18.7	North Pacific Ry. Co., Tacoma, Wash.
Tacoma, Str.	145,773	1	718.68	409.06	1898	Seattle, Wash.	176.1	35.4	5.9	Empire Transportation, Co., Seattle, Wash.
Tacoma, Str.	145,382	1	1,362.00	1,311.00	1884	Portland, Or.	334.0	42.0	11.7	G. A. Gore, Katama, Wash.
Tac. M. Co. No 1 B'ge	59,489	1	140.00	230.00	1896	Tacoma, Wash.	76.0	37.0	6.0	Tacoma Mill Co., Tacoma, Wash.
Tac. M. Co. No 2 B'ge	59,490	1	230.00	230.00	1898	Tacoma, Wash.	101.0	37.0	7.0	Tacoma Mill Co., Tacoma, Wash.
Tahoma, Str.	145,842	1	261.00	154.00	1900	Portland, Or.	117.5	27.0	6.0	C. O. Hill, Portland, Or.
Taku Jack, Str.	145,868	1	13.00	9.00	1893	Astoria, Or.	44.2	10.7	4.1	Pacific Packing & Nav. Co., Astoria, Or.
Tamalpais, Str.	145,873	1	1,554.00	937.00	1907	San Fran., Cal.	234.0	38.5	16.0	N. P. C. R. Co., San Francisco, Cal.
Tam O'Shanter, Bktm.	145,080	1	592.00	562.40	1875	North Bend, Or.	179.0	36.0	16.0	A. M. Simpson, San Francisco, Cal.
Tanana, Chief, Str.	24,455	1	63.00	31.00	1898	Unalaska, Alaska	59.2	12.9	3.9	Geo. B. Hartmann, San Francisco, Cal.
Tanner, Brig.	24,451	1	261.23	27.67	1875	San Fran., Cal.	128.0	24.5	4.5	E. P. Blake, Seattle, Wash.
Tartar, Sch.	24,624	1	48.86	46.43	1868	Seattle, Wash.	138.9	27.2	13.5	E. P. Blake, Seattle, Wash.
Tatooch, Str.	145,846	2	277.00	153.00	1874	Upper Cas., Wn.	69.0	12.8	8.0	C. W. Waldron, Port Townsend, Wash.
Teaser, Sch.	145,914	1	33.27	33.27	1888	Everett, Wash.	200.0	42.8	6.8	W. B. Scott, Portland, Or.
Telephone, Str.	145,977	1	590.13	438.24	1888	Portland, Or.	64.6	17.2	6.1	Towle Thurston Tugb. Co., Pt. Townsend.
Tempest, Str.	145,871	1	34.00	36.00	1891	Astoria, Or.	46.2	16.5	3.5	J. N. Jones, Astoria, Or.
The Belle, Sch.	145,431	1	25.00	19.00	1890	Astoria, Or.	64.7	21.1	5.3	H. B. Borthwick, Globe, Or.
The Bellion, Sch.	145,838	1	82.00	39.00	1899	Globe, Or.	137.0	35.0	8.0	E. Stevenson, Seattle, Wash.
The Columbia, Barge.	99,530	1	325.00	302.00	1890	Olympia, Wn.	57.4	15.0	6.2	H. Rosenfeld, Seattle, Wash.
The Doctor, Str.	145,530	2	72.75	53.54	1890	Richmond, Me.	177.0	34.8	23.35	5.9 H. Schroeder, San Francisco, Cal.
Theobald, Bark	24,549	1	981.38	932.32	1861	San Fran., Cal.	77.0	23.5	5.9	J. Andersson, San Francisco, Cal.
Theo. Roosevelt, Sh.	145,914	1	32.82	51.78	1901	San Fran., Cal.	52.5	21.0	3.56	Alaska Packers, Ass'n, San Francisco, Cal.
Theresa, Sch.	145,146	1	24.68	23.45	1877	Benicia, Cal.	90.5	18.0	9.5	Grays Harbor Packing Co., Pt. Townsend.
Thistle, Str.	145,444	1	107.71	56.53	1887	Hoquiam, Wash.	47.0	8.6	3.6	Pac. Pack. & Nav. Co., San Francisco, Cal.
Thistle, Str.	145,632	1	18.53	9.27	1892	San Fran., Cal.	86.0	21.0	4.5	
Thimket, Str.	145,849	1	94.00	59.00	1893	San Fran., Cal.	86.0	21.0	4.5	

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Decks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Length	Breadth	Depth	
Thos. F. Bayard, Sch.	145,849	1	94.00	56.00	1880	Brooklyn, N. Y.	86.0	21.1	8.6	J. Willcutt, San Francisco, Alaska.
Thoroughfare, Str.	24,855	1	1,012.27	667.50	1871	San Fran., Cal.	248.0	38.4	12.7	W. J. McDowell, San Francisco, Cal.
Thos. Dwyer, Str.	145,407	1	73.25	45.44	1885	Sacramento, Cal.	57.0	16.0	4.0	B. A. Griggs, Port Townsend, Wash.
Thos. L. Nixon, Str.	145,494	1	515.53	477.48	1888	Pasco, Wash.	158.6	36.1	5.8	H. J. Knowles, Sec'y, San Francisco, Cal.
Thrasher, 3 Str.	145,343	1	512.05	343.01	1883	Bath, Me.	144.6	31.5	16.4	H. J. Knowles, Sec'y, San Francisco, Cal.
Three Brothers, Sch.	145,388	1	19.00	18.00	1882	Dadiak, Ala.	48.6	13.6	5.6	....., Kadiak, Alaska.
Three Sisters, Sch.	145,228	1	18.00	17.00	1880	Cedar River, Wn.	46.0	16.4	3.9	Thos. Mellich, Sec'y, San Francisco, Cal.
Tiburon, Str.	145,377	1	1,248.19	874.47	1884	San Fran., Cal.	220.0	34.6	13.5	J. C. Eschen, Tacoma, Wash.
Tidal Wave, Bark.	24,790	1	608.13	495.65	1869	Pt. Madison, Wn.	161.5	37.2	13.7	R. Moore, San Francisco, Wash.
Tiger, Str.	145,091	1	85.37	43.03	1875	San Fran., Cal.	100.0	25.0	5.1	Stimson Mill Co., Seattle, Wash.
Tillicum, Str.	145,915	1	116.00	65.00	1901	Ballard, Wash.	57.0	20.9	8.6	O. Vesper, San Francisco, Cal.
Tillie E. Starb'k, Ship	145,333	1	2,025.00	1,859.00	1883	Chester, Pa.	237.0	42.5	23.1	P. O. Hart, Seattle, Wash.
Tillie Maud, Sch.	145,737	1	6.32	6.32	1896	Fletcher Bay, Wn	33.6	8.8	3.0	Alaska Packers, Ass'n, San Francisco, Cal.
Togalak, Str.	145,859	1	21.00	8.00	1901	San Fran., Cal.	34.5	14.5	5.3	Drummond Litherage Co., Seattle, Wash.
Tom, Barge	59,430	1	426.82	243.82	1898	Ballard, Wash.	100.2	32.5	8.2	Alaska Exploring Co., Seattle, Wash.
Tonquin, Str.	145,439	1	91.00	51.00	1887	Astoria, Or.	64.1	17.6	7.0	W. E. Harris, Portland, Or.
Topsy, Str.	145,413	1	43.71	41.96	1885	Corvallis, Or.	72.6	12.0	2.2	W. G. Roberts, Port Townsend, Wash.
Transfer, Str.	145,713	1	15.18	15.18	1895	Aberdeen, Wn.	42.1	12.0	2.3	A. J. Gerdeau, San Francisco, Cal.
Transit, Sch.	145,607	1	547.68	496.67	1891	Ballard, Wash.	165.2	37.1	13.1	A. C. Freese, San Francisco, Cal.
Transit, Str.	145,040	1	28.96	18.59	1874	San Fran., Cal.	58.9	16.0	5.0	Central Pac. R. R. Co., San Francisco, Cal.
Transit, Str.	145,079	1	1,566.00	1,079.00	1875	San Fran., Cal.	313.5	40.5	15.7	M. H. Jennings, San Francisco, Cal.
Transport, Str.	145,833	1	99.00	52.00	1899	Olympia, Wash.	80.3	20.6	6.1	North Western Lbr Co., San Francisco, Cal.
Traveler, Sch.	24,400	1	32.53	30.91	1864	Verba B. Is., Cal.	57.0	20.0	4.3	T. Cavanaugh, Seattle, Wash.
Traveler, Str.	145,642	1	145.06	72.53	1886	North Bend, Or.	106.0	22.0	10.7	E. Rideout, San Francisco, Cal.
Triby, Sch.	145,688	1	10.17	10.17	1895	Seattle, Wash.	32.2	11.7	3.6	R. E. Tratten, Port Townsend, Wash.
Triby, Str.	145,713	1	137.85	109.60	1896	San Fran., Cal.	93.0	23.5	4.5	G. E. George, Astoria, Or.
Triby, Str.	145,876	1	20.00	13.00	1901	Anacortes, Wash.	51.5	12.3	4.2	....., Astoria, Or.
Triton, Gas	145,740	1	10.48	7.13	1896	Astoria, Or.	45.7	10.7	3.5	....., Coos Bay, Or.
Triton, Sch.	145,401	1	5.00	5.00	1885	Parkersburg, Or.	25.5	9.3	3.0	Mrs. L. Schmidt, San Francisco, Cal.
Triumph, Str.	145,526	1	55.00	27.00	1889	North Bend, Or.	64.0	19.7	8.0	J. V. Melander, San Francisco, Cal.
Tropic Bird, Bktn	145,318	1	347.94	330.56	1882	Bentley, Cal.	136.2	31.5	11.7	S. G. Lister, Seattle, Wash.
Tulenken, Sch.	145,642	1	49.54	47.07	1893	Olympia, Wash.	61.0	19.5	6.5	S. B. Peterson, San Francisco, Cal.
Tussler, Str.	145,264	1	18.00	12.00	1899	Pt. Ludlow, Wn.	44.8	12.8	4.8	Abbie Blair, San Francisco, Cal.
Twilight, Sch.	145,000	1	184.52	175.32	1874	Farmingdale, Me.	112.6	30.2	9.8	J. Straud, Tacoma, Wash.
Two Brothers, Ship	24,648	2	1,382.65	1,263.29	1868	Tacoma, Wash.	187.0	37.8	24.8	E. P. Blake, Seattle, Wash.
Two Brothers, Sch.	145,738	2	17.98	17.98	1897	Tacoma, Wash.	44.1	14.3	6.0	Alaska Salmon Ass'n, San Francisco, Cal.
Tyee, Str.	145,390	2	316.33	158.17	1887	Pt. Ludlow, Wn.	141.2	26.4	13.0	A. Lorentz, Tacoma, Wash.
Tyonic, Str.	145,870	2	59.00	36.00	1901	San Fran., Cal.	76.0	22.5	6.0	A. Paladini, San Francisco, Cal.
Tynphon, Str.	145,547	1	71.02	48.07	1889	Portland, Or.	74.5	14.0	4.5	Alaska Packers, Ass'n, San Francisco, Cal.
U. S. Grant, Str.	25,259	1	35.67	17.84	1885	San Fran., Cal.	61.0	17.0	6.5	Alaska Packers, Ass'n, San Francisco, Cal.
Uganuk, Str.	25,321	1	13.00	8.81	1900	San Fran., Cal.	46.0	12.2	4.5	T. Mellich, San Francisco, Cal.
Ugashik, Str.	25,335	1	21.00	8.00	1901	San Fran., Cal.	54.5	14.5	5.3	....., San Francisco, Cal.
Ukiab, Str.	25,279	1	2,564.42	2,018.77	1890	Tiburon, Cal.	271.0	42.0	15.0	....., San Francisco, Cal.

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dk's.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Lgth.	B'rd.	Depth	
Umiak, Sch.	25,310	1	10.95	10.95	1898	Burton, Wash.	39.8	12.0	5.3	Frank V. Donnelly, Seattle, Wash.
Umpqua, Str.	25,307	1	14.00	13.00	1897	San Fran., Cal.	41.0	11.8	4.6	....., Coos Bay, Or.
Una, Sch.	25,291	1	9.00	8.00	1892	N. Whatcom, Wn.	31.5	12.6	3.7	....., Mary Island, Alaska.
Una, Tern	25,210	1	207.59	197.22	1874	Pt. Blakely, Wn.	118.2	31.5	9.8	Anderson, San Francisco, Cal.
Uncle Jim, Str.	25,325	1	13.00	9.00	1900	Astoria, Or.	44.5	10.5	3.8	T. B. Oak, Port Townsend, Wash.
Uncle Sam, Str.	25,324	1	8.00	6.00	1893	Portland, Or.	38.5	9.5	3.5	C. Schmidt, Astoria, Or.
Undaunted, Bark.	25,179	2	1,764.56	1,647.28	1869	Bath, Me.	207.3	41.1	19.35	W. A. Boole, Jr., San Francisco, Cal.
Nandercliff, Sch.	145,367	1	50.00	47.00	1884	Boston, Mass.	76.9	19.0	9.1	J. T. Gray, Vancouver, B. C.
Undine, Str.	25,268	1	327.22	280.48	1888	Portland, Or.	150.0	27.0	6.6	Union Iron Works, San Francisco, Cal.
Union, Str.	25,316	1	67.85	46.00	1899	San Fran., Cal.	70.2	20.5	7.1	S. M. Reeves, Port Townsend, Wash.
Union, Str.	25,345	1	21.00	8.00	1901	S. Bend, Wash.	39.3	10.6	3.9	C. Overton, San Francisco, Cal.
Union, Str.	25,346	1	13.97	9.42	1901	Belvedere, Cal.	43.0	15.3	3.5	....., Honolulu, H. I.
Uranus, Tern	25,323	1	99.00	53.00	1897	Alameda, Cal.	86.5	18.8	8.6	A. Whitney, San Francisco, Cal.
Uranus, Tern	25,296	1	152.96	144.66	1894	San Fran., Cal.	114.5	23.4	8.8	La Conner T. & T. Co., Seattle, Wash.
Utopia, Str.	25,295	1	423.72	350.81	1893	Seattle, Wash.	123.8	24.6	9.1	Pac. Amer. Fisheries Co., Port Townsend.
Utsalady, Str.	25,257	1	43.55	33.26	1884	Utsalady, Wash.	57.8	14.5	4.3	Pac. Pack. & Nav. Co., San Francisco, Cal.
Uyak, Str.	25,336	1	22.00	12.00	1901	Alameda, Cal.	55.0	13.0	5.8	.....
Valdez, Str.	161,883	1	12.00	8.00	1901	Detroit, Mich.	36.8	8.7	3.2	H. McDonnell,
Valencia, 2 Str.	25,998	1	1,598.49	1,197.56	1882	Philadelphia, Pa.	252.7	34.0	19.7	Ship'er & Mer. Tugb. Co., San Francisco, Cal.
Vallejo, Str.	155,011	2	414.00	225.00	1879	E. Portland, Or.	123.5	31.5	9.9	Vallejo Ferry Co., San Francisco, Cal.
Vallejo, Str.	161,894	1	419.00	368.00	1901	Benicia, Cal.	176.0	38.0	6.6	Farmers' Trans. Co., San Francisco, Cal.
Vancouver, Str.	161,717	1	211.39	157.14	1893	Portland, Or.	108.0	32.0	7.0	O. F. Paxton, Portland, Or.
Vanguard, Str.	161,873	1	75.00	51.00	1901	Astoria, Or.	64.0	18.1	4.8	J. H. Haslan, Astoria, Or.
Vega, Str.	161,765	1	230.36	123.29	1895	Sacramento, Cal.	143.0	32.0	3.5	J. H. Roberts, San Francisco, Cal.
Vega, Tern	25,982	1	245.44	233.19	1881	Fairhaven, Cal.	117.0	32.0	10.0	Wildgoose M. & T. Co., San Francisco, Cal.
Ventura, Str.	161,871	1	6,253.37	3,956.31	1900	Philadelphia, Pa.	400.0	50.2	21.3	Oceanic Steamship Co., San Francisco, Cal.
Ventura, Sch.	161,549	1	24.00	23.00	1886	Iiwaco, Wash.	49.2	16.6	6.0	....., Sand Point, Alaska.
Venus, Str.	161,884	1	15.00	9.00	1901	Coquille, Or.	139.4	12.4	5.0	....., Coos Bay, Or.
Vera, Str.	161,813	1	53.34	27.10	1898	Seattle, Wash.	48.5	14.3	3.7	W. J. Walsh, Seattle, Wash.
Verberna, Sch.	161,694	1	37.27	35.41	1892	San Fran., Cal.	61.5	21.5	2.1	H. Isben, San Francisco, Cal.
Vermont, Str.	161,888	1	121.00	82.00	1902	Seattle, Wash.	107.0	18.4	10.5	F. H. McMillin, Seattle, Wash.
Victor, Str.	161,707	1	55.65	43.11	1893	Tacoma, Wash.	59.0	15.0	5.7	North Amer. Fish Co., Port Townsend, Wash.
Victoria, Str.	161,826	4	3,502.00	2,112.00	1870	Dunbarton, Scot.	361.1	40.1	19.0	North Pacific S. S. Co., Tacoma, Wash.
Victoria, Str.	161,820	1	55.00	30.00	1897	St. Michaels, Ala.	75.0	20.5	5.0	....., St. Michael, Alaska.
Victorian, Str.	161,655	1	1,503.00	809.00	1891	Portland, Or.	242.3	36.0	15.5	North Amer. Mail S. S. Co., Tacoma, Wash.
Victory, Str.	91,017	1	137.98	103.62	1877	San Fran., Cal.	98.6	23.5	4.1	Old River Dredging Co., San Francisco, Cal.
Vida, Sch.	136,180	1	25.00	25.00	1891	Seattle, Wash.	50.0	17.2	6.4	....., Seattle, Wash.
Vidette, Bark	25,703	1	616.69	585.86	1865	Bath, Me.	155.7	34.6	13.8	J. F. Clark, San Francisco, Cal.
Vigilant, Str.	161,743	1	50.43	34.29	1894	Ballard, Wash.	58.4	14.7	9.2	L. B. Hastings, Port Townsend, Wash.
Viking, Sch.	161,510	1	146.86	139.52	1882	Marshfield, Or.	108.0	30.0	8.2	W. Olsen, San Francisco, Cal.
Vikne, Sch.	161,688	1	6.75	6.42	1892	Anacortes, Wash.	28.6	10.9	4.1	F. Leedham, Mary Island, Alaska.

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. Dks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			L'th	B'rth	Dep'th	
War Eagle, Sch.	26,785	1	23.54	31.89	1865	San Fran., Cal.	58.5	20.6	4.35	P. Caduc, San Francisco, Cal.
Warrior, Str.	81,057	1	88.61	44.31	1884	San Fran., Cal.	91.6	22.0	10.0	Wilmington Trans. Co., Wilmington, Cal.
Washington, Str.	81,772	1	122.00	83.00	1901	Wilmington, Cal.	101.5	24.0	10.5	Wilmington Trans. Co., Los Angeles, Cal.
Washington, Barge	63,004	1	710.00	675.00	1898	Portland, Or.	101.5	24.0	10.5	Port Townsend, Wash.
Washington, Barge	63,005	1	710.00	675.00	1898	Portland, Or.	101.5	24.0	10.5	Port Townsend, Wash.
Wasp, Str.	81,257	1	25.87	15.68	1890	Engle Harb., Wn.	50.9	14.0	5.2	Thos. Grant, Port Townsend, Wash.
Water Nymph, Str.	80,867	1	27.05	13.53	1881	San Fran., Cal.	57.6	13.0	6.25	Chas. Goodall, San Francisco, Cal.
Water Witch, Str.	26,798	1	49.00	37.00	1866	San Fran., Cal.	65.5	19.3	6.1	S. E. Slade, San Francisco, Cal.
Watson A. West, Sch.	81,782	1	818.00	747.00	1901	Aberdeen, Wash.	195.5	40.0	14.2	G. J. Farmer, Port Townsend, Wash.
Wave, Sch.	81,269	1	6.14	5.84	1888	Oakland, Cal.	30.0	11.2	4.3	J. R. Jarvis, San Francisco, Cal.
Wavelet, Sch.	80,883	1	32.04	30.44	1878	San Fran., Cal.	57.0	20.2	4.1	J. Dolbeer, San Francisco, Cal.
Wawona, Sch.	81,576	1	468.42	413.94	1897	Fairhaven, Cal.	156.0	36.0	12.3	A. M. Simpson, San Francisco, Cal.
Webfoot, Sch.	80,984	1	361.74	343.69	1869	Coos Bay, Or.	146.3	31.0	10.8	O. Olsen, San Francisco, Cal.
Welcome Bros. Sch.	81,707	1	30.00	21.00	1900	Coquille, Or.	56.2	13.5	2.8	L. J. Bailey, Seattle, Wash.
Wenatchie, Str.	81,671	1	681.00	605.00	1901	Aberdeen, Wash.	177.2	38.5	14.5	P. F. Nordby, Seattle, Wash.
Wenatchie, Sch.	81,532	1	77.00	48.00	1899	Wenatchee, Wash.	79.3	14.0	6.4	St. Michael, Alaska.
Wenona, Str.	81,624	1	27.21	27.21	1895	Kirkland, Wash.	50.5	16.4	3.8	D. Steffen, San Francisco, Cal.
Western Home, Sch.	80,421	1	135.12	128.37	1898	St. Michael, Alaska	96.5	29.0	7.9	T. Pollard, San Francisco, Cal.
Whidby, Sch.	81,188	1	211.83	154.62	1884	San Fran., Cal.	124.0	31.2	9.5	E. O. Lovejoy, Port Townsend, Wash.
Whitehorn, 2 Str.	81,174	1	23.00	23.00	1901	Coupeville, Wn.	59.9	14.9	5.0	J. H. Tate, San Francisco, Cal.
White Wings, Sch.	80,824	1	195.54	144.25	1886	San Fran., Cal.	114.0	31.0	9.0	W. Pierce, San Francisco, Cal.
White Wings, Str.	81,607	1	27.76	26.39	1881	Seattle, Wash.	52.0	17.6	4.7	Pacific Pack & Nav. Co., Seattle, Wash.
Wieram, 2 Str.	81,501	1	67.00	34.00	1898	Seattle, Wash.	69.4	16.7	8.3	Alaska Packers' Ass'n, San Francisco, Cal.
Willam, Str.	81,755	1	16.00	11.00	1901	Rainier, Or.	72.0	17.3	3.9	M. Smith, Rainier, Or.
Wild Cat, Str.	81,370	1	121.00	104.00	1892	Alameda, Cal.	50.4	10.5	3.9	Pac. Pack & Nav. Co., San Francisco, Cal.
Wildwood, Str.	81,923	1	53.58	26.79	1884	Rainier, Or.	90.0	22.5	4.6	L. B. Hastings, Port Townsend, Wash.
William & Albert, Sch.	26,778	1	23.10	31.45	1861	San Fran., Cal.	58.8	20.8	4.2	H. Lonnies, San Francisco, Cal.
William Olsen, 4 Sch.	80,981	1	2,202.40	2,038.00	1883	Rockport, Me.	254.9	43.2	28.3	J. C. Eschen, San Francisco, Cal.
William Olsen, 4 Sch.	81,708	1	525.22	491.14	1900	Alameda, Cal.	162.5	32.8	12.3	J. H. Masterson, San Francisco, Cal.
Wm. Bowden, Sch.	81,137	1	778.50	691.41	1892	Pt. Blakely, Wn.	185.6	38.8	15.4	W. G. Hall, San Francisco, Cal.
Wm. F. Witzmann, Sch.	80,824	1	473.21	407.66	1887	Fairhaven, Wash.	160.0	35.0	12.2	L. Fjord, San Francisco, Cal.
Wm. G. Irwin, Bktn.	81,773	1	342.16	330.76	1881	San Fran., Cal.	135.0	32.9	13.0	Tacoma & R. H. Line Co., Port Townsend.
Wm. H. Smith, Sch.	81,773	1	566.40	431.13	1889	Pt. Blakely, Wn.	170.4	37.6	12.8	G. G. Billings, San Francisco, Cal.
Wm. H. Hook, Str.	81,773	1	452.44	431.13	1887	Portland, Or.	150.0	32.0	15.6	E. Stone, Corvallis, Or.
Wm. Nottingham, Sch.	81,790	1	1,062.00	975.94	1901	Ballard, Wash.	211.7	42.3	16.5	The Globe Navigation Co., Seattle, Wash.
Wm. Ronton, Sch.	80,974	1	447.26	375.94	1882	Pt. Blakely, Wn.	148.4	32.1	11.9	J. N. Bruce, San Francisco, Cal.
Willie, Str.	80,974	1	482.60	356.94	1883	Seattle, Wash.	165.6	15.4	14.5	O. L. Tew, Seattle, Wash.
Wm. R. Hume, 4 Bktn.	81,286	1	1,866.73	1,588.00	1890	North Bend, Or.	183.1	33.6	14.6	J. Jensen, San Francisco, Cal.
Willard, Bktn.	81,599	2	1,881.00	1,658.00	1896	P. Gas ew, Sect.	267.3	40.1	22.7	G. W. Hume, San Francisco, Cal.
Will H. Iron, Str.	81,758	1	983.00	619.00	1901	Ballard, Wash.	183.8	30.5	22.6	North Am. T. & T. Co., Seattle, Wash.
Will W. Case, Bark.	80,661	1	576.38	554.61	1877	Rockland, Me.	143.0	31.0	17.0	Alaska Packers' Ass'n, San Francisco, Cal.

GEO. N. GILSON.
President

CHARLES SNYDER,
Secretary

J. F. LANE,
Treasurer

ENGINEERS' SUPPLY CO.

INCORPORATED

Railroad Ave., bet. Yesler Way and Washington St.

Telephone Main 1191

SEATTLE, WASH.


DEALERS IN

General Engineers' Supplies

LUBRICATING OILS, GREASE, PACKING
MANHOLE GASKETS
STEAM AND WATER HOSE
PIPE AND FITTINGS
AND ALL KINDS OF BRASS GOODS

Agents for Chapman, Ashton & Bashlin Valves

Reference: Scandinavian-American Bank

Ship's Plumbing  Electrical Work

LIST OF DOCUMENTED VESSELS AT PACIFIC COAST PORTS

NAME AND RIG	Official No.	No. D. Ks.	Tonnage		When Built	Where Built	Dimensions			Managing Owner and Home Port
			Gross	Net			Length	Breadth	Depth	
Winchester, Sch	81,461	1	118.49	112.57	1893	Prosper, Or.	89.5	25.0	10.0	K. Branus, San Francisco, Cal.
Winfield Scott, Sch	26,786	1	49.83	47.34	1861	San Fran., Cal.	66.0	22.4	5.0	B. H. Tietjen, San Francisco, Cal.
Wing & Wing, Sch	80,847	1	141.82	134.73	1881	San Fran., Cal.	104.0	30.0	8.2	I. H. C. Prien, San Francisco, Cal.
Winn, Gasoline	81,563	1	9.17	6.24	1887	San Fran., Cal.	34.8	8.5	3.5	S. Elmore, Astoria, Or.
Winslow, Sch	81,657	1	566.00	496.00	1899	Pt. Blakely, Wn.	170.4	37.6	12.8	G. E. Billins, San Francisco, Cal.
Wisconsin, Barge	62,973	1	105.70	105.70	1896	Ballard, Wash.	97.0	24.0	5.4	Milwaukee-Alaska G. D. Co., Seattle, Wash.
Witch of the Boy, Sch	80,269	1	22.45	21.34	1870	San Fran., Cal.	44.5	20.0	3.55	J. Gable, San Francisco, Cal.
Wizard, Str	80,076	1	139.05	69.53	1869	San Fran., Cal.	94.0	23.2	11.4	Ernest Heldmaier, Los Angeles, Cal.
Wolverine, Str	81,728	1	14.00	11.00	1900	Grand Rapids, Mich.	46.4	9.0	6.5	C. H. Phelps, Port Townsend, Wash.
Wonder, Sch	26,905	1	49.15	46.71	1868	San Fran., Cal.	62.5	23.0	5.1	T. P. Emigh, San Francisco, Cal.
Wrestler, Bkn	80,802	1	470.59	400.00	1881	Pt. Ludlow, Wn.	148.5	34.9	13.3	N. J. Nielson, San Francisco, Cal.
Wyetchie, Barge	62,850	1	620.91	609.00	1880	Portland, Or.	200.0	44.0	10.0	O. R. & N. Co., Portland, Or.
Xanthus, Str	27,023	1	49.00	34.00	1901	Seattle, Wash.	83.3	12.7	5.3	J. M. Colman, Seattle, Wash.
Yale, Str	27,638	1	19.00	10.00	1890	Piermont, N. Y.	51.1	10.1	5.1	St. Michael, Alaska.
Yellow Jacket, Str	27,677	1	60.00	28.00	1900	Seattle, Wash.	66.5	18.5	8.5	Thos. Grant, Port Townsend, Wash.
Yosemite, Bark	27,567	2	1,153.84	1,040.80	1868	Portsmouth, N.H.	183.0	37.2	23.5	J. Peterson, Seattle, Wash.
Yosemite, Sch	27,596	1	28.48	27.07	1874	San Fran., Cal.	54.0	17.6	4.5	T. A. Johnson, Seattle, Wash.
Young America, Sch	27,546	1	23.92	22.75	1859	San Fran., Cal.	51.5	15.8	3.7	T. A. Johnson, San Francisco, Cal.
Yukon, Sch	27,661	1	17.85	16.96	1894	Ballard, Wash.	44.3	12.7	5.6	I. De Young, Seattle, Wash.
Yukon, Str	27,670	1	33.22	17.98	1895	Rufus, Or.	48.4	24.0	3.0	R. C. Wallis, Rufus, Or.
Yukon, Str	27,628	1	29.00	14.00	1886	Seattle, Wash.	36.3	13.5	5.5	Juneau, Alaska.
Zampa, Tern	28,110	1	385.76	322.04	1887	Pt. Madison, Wn.	145.7	36.0	10.4	G. H. Collins, San Francisco, Cal.
Zealandia, 4 Str	28,136	3	2,730.12	1,718.74	1875	Glasgow, Scot.	377.0	37.1	25.0	Oceanic S. S. Co., San Francisco, Cal.
Zenth, Sch	28,143	1	26.00	26.00	1900	Bandon, Or.	37.0	37.1	25.0	Coos Bay, Or.
Zephyr, Str	28,074	2	161.54	109.75	1871	Seattle, Wash.	100.0	20.3	4.8	Wm. Hanson, Port Townsend, Wash.
Zinfandel, Str	28,115	1	329.15	270.36	1889	San Fran., Cal.	125.0	29.5	7.0	N. H. Wulff, San Francisco, Cal.

TO SHIP OWNERS

The Compilation of the following tables, though conducted with great care and all the data taken from official sources, is a labor that is almost impossible to conclude without mistakes. This work is issued with "errors and omissions excepted" added, and the request that patrons discovering any mistakes will kindly notify the publishers of the same, that future editions may be corrected.

STATIONERY DEP'T 716 FIRST AVE.

Phone Main
Independent 392

Denny-Coryell Co.

Stationers
Printers and
Blank Book
Manufacturers

Seattle, Wash.

Phone Main
Independent 134

PRINTING DEP'T 1323 FIRST AVE.

AMERICAN SOCIETY OF NAVAL ENGINEERS.

NAMES AND ADDRESSES OF OFFICERS AND MEMBERS ON THE PACIFIC
COAST.

Barry, Ralph E., 1904 Market street, San Francisco, Cal.
 Berry, David M., Pacific Coast S. S. Co., 102 16th ave. n., Seattle, Wash.
 Davis, Norris K., U. S. N., 1800 Broadway, San Francisco, Cal.
 Dunning, Wm. B. U. S. N. (Ret.), 530 California st., San Francisco, Cal.
 Eckert, W. R., 3014 Clay st., San Francisco, Cal.
 Hasson, W. F. C., Honolulu, H. I.
 Hunt, A. M., 310 Sansome st., San Francisco, Cal.
 Kutz, George F., U. S. N. (Ret.), 1232 Madison St., Oakland, Cal.
 Morgan, Leo., 18 Hill St., San Francisco, Cal.
 Smith, W. Stuart, U. S. N. (Ret.), Moran Bros. Co., Seattle, Wash.
 Snow, Elliot, U. S. N., Union Iron Works, San Francisco, Cal.
 Taylor, Walter, Los Angeles, Cal.
 Trilley, Joseph, U. S. N., 2847 Fillmore st., San Francisco, Cal.

ASSOCIATES.

Allen, Arthur P., 172 Broadway, Seattle, Wash.
 Behr, Vladimir, I. R. N., Hong Kong, China.
 Dow, Geo. E., 179 First st., San Francisco, Cal.
 Foemer, H. V., S. E. Dept., Mare Island, Cal.
 Forsyth, Robert, chief engineer Union Iron Works, San Francisco, Cal.
 Frear, Hugo B., Union Iron Works, San Francisco, Cal.
 Gillies, David, Hong Kong and Whampoa Dock Co., Ltd., Hong Kong, China.
 Heffernan, J. T., Heffernan Engine Works, Seattle, Wash.
 Kutz, Geo. F., Jr., Navy Yard, Mare Island, Cal.
 Lacey, C. C., Pacific Coast Co., Seattle, Wash.
 Lidney, Wm. P., Seattle, Wash.
 McAllaster, mechanical engineer and naval architect, Seattle, Wash.
 Mizutani, Y., I. J. N., Yokasuma, Japan.
 Moran, Robert, president Moran Bros. Co., Seattle, Wash.
 Morris, Ed. T., 1380 9th ave., East Oakland, Cal.
 Scott, I. M., manager Union Iron Works, San Francisco, Cal.
 Spiers, James, President and Manager Fulton Eng. & S. B. Works, San Francisco, Cal.
 Takakura, S., naval constructor Japanese navy, Tokyo, Japan.
 Tucker, Edwin W., 818 Page stt, San Francisco, Cal.
 Wadagaki, Yasuzo, naval constructor I. J. N., Tokyo, Japan.
 Worner, J. B., 306 Sansome st., San Francisco, Cal.
 Worrington, James N., 1711 S. Hope st., Los Angeles, Cal.
 Wolff, F., president Wolff & Zwicker, Portland, Or.

OFFICE TELEPHONE

Main 445

RESIDENCE TELEPHONE

Black 3656

Telegraph Codes

"ENGINEERING" "POSTAL"

E. L. McALLASTER
Mechanical Engineer and Naval Architect

**ESTIMATES, PLANS AND SPECIFICATIONS FURNISHED FOR VESSELS
OR MACHINERY**

Superintendence of Construction and Erection

Expert Examinations and Tests

Office, 503-504 Pioneer Building,

SEATTLE, WASH.

SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS.

OFFICERS:

President Clement A. Griscom.
 Secretary and Treasurer—W. L. Capps, New York Navy Yard.
 Vice Presidents—Francis T. Bowles, Chas. H. Cramp, F. L. Fernald, Philip Hichborn, Chas. H. Loring, Geo. W. Melville, Geo. W. Quintard, Irving M. Scott, Stevenson Taylor, Edwin A. Stevens.
 Members and Associate Members of Council—W. I. Babcock, W. L. Capps, French E. Chadwick, James E. Denton, Geo. W. Dickie, Wm. F. Durand, A. P. Niblack, Nathaniel G. Herreshoff, Ira N. Hollis, Wm. H. Jaques, John C. Kafer, Frank B. King, Frank E. Kirby, W. M. McFarland, Jacob W. Miller, Lewis Nixon, Cecil H. Peabody, Walter A. Post, Harrington Putnam, Horace See, E. Platt Stratton, David W. Taylor, Henry G. Morse, Geo. E. Weed.
 Executive Committee—Francis T. Bowles, Harrington Putnam, Stevenson Taylor, Louis Nixon, Edwin A. Stevens; ex-officio, Clement A. Griscom and W. L. Capp.

PACIFIC COAST MEMBERS.

Allen, A. P., Moran Bros. Co., Seattle, Wash.
 Dickie, G. W., Union Iron Works, San Francisco, Cal.
 Dickie, Jos., Union Iron Works, San Francisco, Cal.
 Dixon, Albert F., navy yard, Mare Island, Cal.
 Eckart, Wm. R., 4 Nevada block, San Francisco, Cal.
 Forsyth, Robert, Union Iron Works, San Francisco, Cal.
 Frear, Hugo P., Union Iron Works, San Francisco, Cal.
 Hibbs, Frank W., Puget Sound Navy Yard, Bremerton, Wash.
 Legarda, V. L., Union Iron Works, San Francisco, Cal.
 Le Pine, F. C., Moran Bros. Co., Seattle, Wash.
 McKinley, James, Union Iron Works, San Francisco, Cal.
 McAllaster, E. L., Pioneer bldg., Seattle, Wash.
 Moran, Robert, Moran Bros. Co., Seattle, Wash.
 Powers, W. F., Moran Bros. Co., Seattle, Wash.
 Ritchie, J. S., Hawaiian S. S. Co., San Francisco, Cal.
 Ruhm, Thos. F., Moran Bros. Co., Seattle, Wash.
 Scott, I. M., Union Iron Works, San Francisco, Cal.
 Scott, John T., Union Iron Works, San Francisco, Cal.
 Snow, Elliott, Naval Constructor U. S. A., Hong Kong, China.
 Sperry, Austin, 2100 Pacific avenue, San Francisco, Cal.
 Spiers, James, Fulton Engine and S. B. Works, San Francisco, Cal.
 Sugitani, Yasuichi, Mitsu Dock Yard and Engine Works, Nagasaki, Japan.
 Tawressey, J. G., Union Iron Works, San Francisco, Cal.
 Thayer, I. E., 28 California street, San Francisco, Cal.
 Van Fleck, Frank, 36 Montgomery street, San Francisco, Cal.
 Warrington, J. W., 1711 South Hope street, Los Angeles, Cal.
 Williams, F., Moran Bros. Co., Seattle, Wash.
 Yamamoto, Nagakato, Mitsu Bishi Dock Yard and E. Works, Nagasaki, Japan.
 Zahm, F. B., Navy Yard, Mare Island, Cal.

ASSOCIATE MEMBERS.

Barry, R. E., Union Iron Works, San Francisco, Cal.
 Ballard, W. R., Moran Bros. Co., Seattle, Wash.
 Dennison, A. L., Union Iron Works, San Francisco, Cal.
 Dick, Thomas B., 934 York street, Vallejo, Cal.
 Dickie, D. W., Moran Bros. Co., Seattle, Wash.
 Hedstrom, Bernard, Moran Bros. Co., Seattle, Wash.
 MacDougall, W. D., Navy Yard, Mare Island, Cal.
 Roberts, T. G., Navy Yard, Mare Island, Cal.
 Rockwell, Chas. H., Navy Yard, Mare Island, Cal.
 Scott, H. T., Union Iron Works, San Francisco, Cal.

JUNIOR MEMBERS.

Bretteville, Alexander De, Fulton Engine and S. B. Works, San Francisco, Cal.
 Crawford, Jos. A., 414 19th street, Oakland, Cal.
 Godbald, Chas. H., Jr., Union Iron Works, San Francisco, Cal.
 Ross, J. A., Jr., Moran Bros. Co., Seattle, Wash.

PACIFIC COAST DRY DOCKS.

PLACE	NAME OF DOCK	LENGTH		WIDTH		Depth Over Sill	Capacity
		On Blocks	Over All	Gate	Top		
Ballard & Seattle, Wash.	Ballard Dry Dock & Shipping Co.	200	150	28	12	12	1,500
Ballard, Wash.	The Star Ship Ways.	200	150	28	12	12	1,500
Everett, Wash.	Pacific Steel Barge Co.	280	200	28	10	10	1,500
East Portland, Ore.	East Portland Shipbuilding Co.	200	200	28	10	10	1,500
Oakland, Cal.	Hay & Wright Marine Ways.	150	150	28	10	10	700
Portland, Ore.	Pequet & Smith.	320	325	80	23	23	2,000
Quartermaster Harbor.	Puget Sound Dry Dock Co.	230	750	80	20	20	8,000
San Diego, Cal.	Marine Railway and Dry Dock Co.	230	750	80	20	20	1,200
San Francisco, Cal.	Mathew & Turner's (Three Ways)	235	235	64	15	15	1,000
San Francisco, Cal.	Merchants' Dry Dock Co.	187	187	50	11	11	1,000
San Francisco, Cal.	Merchants' Dry Dock Co.	301	301	70	15	15	3,000
San Francisco, Cal.	Merchants' Dry Dock Co.	550	550	42	13	13	800
San Francisco, Cal.	Pacific Marine Railway & Ways Co.	165	490	100	28	28	2,500
San Francisco, Cal.	San Francisco Dry Dock Co.	750	750	100	16	16	1,500
San Francisco, Cal.	San Francisco Dry Dock Co.	301	301	69	16	16	1,500
San Francisco, Cal.	San Francisco Dry Dock Co. (Floating)	210	210	66	16	16	2,000
San Francisco, Cal.	San Francisco Dry Dock Co. (Floating)	271	271	82	20	20	4,000
San Francisco, Cal.	San Francisco Dry Dock Co. (Floating)	434	440	62	16	16	2,500
San Francisco, Cal.	Union Iron Works Dry Dock.	235	350	76	25	25	4,000
San Francisco, Cal.	W. A. Boole & Sons.	325	350	84	25	25	4,000
Seattle, Wash.	Half Bros. Marine Railway.	325	350	84	25	25	4,000
Seattle, Wash.	King & Wing (Two Ways)	325	325	60	26	26	3,000
Seattle, Wash.	Moran Bros. Co. (Floating)	325	325	60	26	26	3,000
Seattle, Wash.	Moran Bros. Co.	325	325	60	26	26	3,000
Tacoma, Wash.	Puget Sound Dry Dock & Machine Co.	325	325	60	26	26	3,000
Victoria, B. C.	William Turpel.	250	625	44	23	23	4,000
Vancouver, B. C.	British Columbia Marine Railway Co., Ltd.	250	625	44	23	23	4,000
Warren, Eagle Harbor, Wash.	Half Bros. Marine Railway.	325	350	84	23	23	5,000

Transportation Companies of Seattle

ALASKA COMMERCIAL CO.

Office 84 Yesler Way; landing Schwabacher Dock. James Carroll, Agent.

BELLINGHAM BAY TRANSPORTATION CO.

President and General Manager, J. R. Thompson, Colman Dock.

ALASKA STEAMSHIP CO.

Pier 1, Yesler Dock; office 606 First Ave.; President, Walter Oaks; Vice-President, C. E. Peabody; Purchasing Agent, C. H. J. Stoltenberg; Port Engineer, G. H. Lent; Superintendent, Frank E. Burns.

COLUMBIA RIVER & PUGET SOUND NAVIGATION COMPANY.

Office and landing, Flyer Dock; President and General Manager, L. B. Seeley, Portland; Vice-President, S. H. Brown, Boston, Mass.; Secretary, E. W. Chrichton, Portland; Agent, Uri Seeley, Seattle, Wash.; A. J. Taylor, Agent, Astoria, Ore.

COOK & CO.

Pier 1, Yesler Dock.

DODWELL & CO. (LTD.)

Pier 1, Yesler Dock.

EMPIRE TRANSPORTATION CO.

Office 607 First Ave.; President, C. A. Griscom; General Manager, Geo. Higbee; Purchasing Agent, E. A. Hasson; Port Engineer, Wm. Walsh; Landing, Pier No. 4.

GLOBE NAVIGATION CO. (LTD.)

Office, 200 Globe Building; President, J. C. Clise; Treasurer and Manager, G. F. Thorndyke; Purchasing Agent, E. S. Johnston; landing, Pier No. 3.

LACONNER TRADING & TRANSPORTATION CO.

Office and landing, Pier No. 2; Manager and Secretary, Geo. J. Willy; President, J. Green; Purchasing Agent, W. S. Blain.

PUGET SOUND NAVIGATION CO.

Office, 606 First Ave.; General Manager and President, Chas. E. Peabody; Vice-President, Walter Oakes; Purchasing Agent, C. H. J. Stoltenberg; Port Engineer, G. H. Lent; Superintendent, F. E. Burns; landing, Lilly-Bogardus and Yesler Docks..

VANCOUVER LINE.

Cook & Co., Agents; Pier No. 1, Yesler Dock.

S. WILLEY STEAMSHIP & NAVIGATION CO.

President, S. G. Simpson; Vice-President, A. H. Anderson; Manager and Purchasing Agent, R. C. Force; Secretary, J. C. Percival; office and landing, Galbraith Dock.

SWIFT & BRUCE.

Office and landing, Colman Dock.

McCOMICK.

Landing, Pier No. 2.

MOE BROS.

Colman Dock.

STEAMSHIP CO.

NIPPON YUSEN KAISHA.

Office, 503 Burke Block.

NORTH AMERICAN TRANS. & TRADING CO.

President, M. Cudahy; Vice-President, W. Ison; Secretary, R. B. Snowden; office, Yesler and Occidental Ave.; landing, Agen's Dock.

NORTHERN COMMERCIAL CO.

Office, 607 First Ave.

NORTHERN LAKES & RIVERS NAVIGATION CO.

Office, 84 Yesler Way.

NORTHWESTERN COMMERCIAL CO.

President and General Manager, Jno. Rosene; Vice-President, G. T. Williams; Secretary, J. D. Trenholm; landing, Arlington Dock.

PACIFIC CLIPPER LINE.

Arlington Dock.

PACIFIC COAST STEAMSHIP CO.

President, Edwin Goodall, San Francisco; Manager, J. F. Lawless, San Francisco; Purchasing Agent, J. Warnick, San Francisco; Assistant Purchasing Agent, W. E. Nichols, Seattle; Port Engineer, S. Sutton, Seattle; Seattle office, P. C. S. S. Co. Dock, Pier B; San Francisco office, No. 10 Market St.

PACIFIC PACKING & NAVIGATION CO.

Vice-President, T. B. McGovern; General Manager, E. E. Ainsworth; Assistant Treasurer, S. A. Ross; Port Engineer, Capt. R. McFarland; Purchasing Agent, H. J. Knight; office, 416 Globe Block; landing, Arlington Dock.

PACIFIC TRANSPORT CO.

Office, 610 Bailey Building.

SEATTLE, EVERETT & TACOMA NAVIGATION CO.

President, U. B. Scott; General Manager and Purchasing Agent, E. B. Scott; office and landing, Colman Dock.

Steamship and Transportation Companies of the
Pacific Coast.

SAN FRANCISCO, CAL.

FERRIES.

Alameda (S. P. Co.), foot of Market Street.
Oakland (S. P. Co.), foot of Market Street.
Santa Fe Ferry, foot of Market Street.
Sausalito (North Shore R. R. Co., foot of Market Street.
Tiburon (Cal. N. W. Ry. Co.), foot of Market Street.

SAN FRANCISCO, CAL.

STEAMBOAT COMPANIES.

Austin Freight & Transportation Co., 313 Davis.
 California Navigation & Improvement Co., Pier 3.
 California Transportation Co., Pier 5.
 Dumond Freight Express Line, Washington Street Wharf.
 Indianapolis Transportation Co., 137 Montgomery.
 Independent Transportation Co., 137 Montgomery.
 Merchants' Transportation Co., 306 Davis.
 Monticello S. S. Co., Pier 2.
 Sacramento Transportation Co., Pier 5.
 Southern Pacific Co., Market Street Wharf.
 Union Transportation Co., Pier 1.

SAN FRANCISCO, CAL.

STEAMSHIP COMPANIES.

Alaska Exploration Co., 139 Post.
 American-Hawaiian S. S. Co., 202 Market.
 Beadle S. S. Co., 22 Market.
 Cape Nome Freight & Transportation Co., 935 Market.
 Commercial Line of Steamers, 237 California St.
 Comagnie General Transportation Co., 5 Montgomery Ave.
 Campania Sud-Americana De Vapores, Balfour-Guthrie Co.,
 316 California St.
 Crescent Transportation Co., 488 Beale.
 Dollar M. S. S. S. Co., 204 Front.
 Dollar S. S. Co., 204 Front.
 Empire Transportation Co., 30 Montgomery.
 Globe Navigation Co., 308 Market.
 Gray S. S. Co., 123 California St.
 Humboldt S. S. Co., 230 California St.
 Kosmos Line of Steamers, 327 Market.
 Le Veloce S. S. Co., 614 Washington.
 Matson Navigation Co., 327 Market.
 Merchants' Independent Line of Steamers, 638 Market.
 North Pacific S. S. Co., Pier 13.
 Northern Navigation Co., 645 Market.
 Occidental & Oriental S. S. Co., 421 Market.
 Oceanic S. S. Co. for Honolulu, Auckland, Sydney and
 around the world, J. D. Spreckles & Bros. Co., general agents,
 643 Market.
 Oregon Coal & Navigation Co., northwest corner Broadway
 and East.
 Oregon R. R. & Nav. Co., 1 Montgomery.

Pacific Coast S. S. Co., for Southern Coast to Los Angeles, San Diego and intermediate ports, Point Arena, Cuffey's Cove and Little River, Victoria, B. C., and Alaska, office 10 Market.

Pacific Mail S. S. Co., for New York, via Panama, and China and Japan, office corner Brannon and First and 421 Market.

Pacific Steam Navigation Co., 316 California.

Panama R. R. and S. S. Line, 330 Market St.

Progreso S. S. Co., Claus Spreckles Bldg.

Pollard S. S. Co., 22 California.

Toyo Kisen Kaisha, 421 Market.

PORTLAND, ORE.

STEAMSHIP AGENTS.

Beebe, The C. F. Co., 1-7 First north, Portland.

Dodwell & Co. (Ltd.), 252 Oak, Portland.

Posten, Newton, 249 Washington, Portland.

Woolsey, Frank Co., 252 Oak.

TRANSPORTATION COMPANIES.

Albina Free Ferry, foot 7th to Albina avenue.

American-Hawaiian S. S. Co., 1-7 First north.

Columbia, Oriental & S. Africa Nav. Co., 621 Marquam Bldg.

Columbia River & Puget Sound Nav. Co., foot Alder.

Dalles, Portland & Astoria Nav. Co., foot Oak.

Globe Navigation Co., 7 Worcester Bldg.

Hamburg-American S. S. Co., 14 Mulkey Bldg.

Ilwaco Ry. & Nav. Co., O. R. & N. agents.

Kellogg, The J., Trans. Co., foot Salmon.

Lewis River Trans. Co., 263½ Yamhill.

Oregon City Trans. Co., foot Taylor.

Oregon R. R. & Nav. Co., 24 Worcester.

Pacific Coast S. S. Co., 249 Washington.

Shaver Trans. Co., foot Washington.

Vancouver Trans. Co., 263½ Yamhill.

Washougal & La Camas Trans. Co., foot Washington.

Western Trans. & Towing Co., 266½ Front.

Willamette Trans. & Locks Co., Alder, n. e. cor. Seventh.

Willamette & Columbia River Towing Co., Alder, n. e. cor. Seventh.

Kilbourne & Clark Co.

ELECTRICAL

**Machinery and Supplies
of all kinds for all purposes
Marine Searchlights and Projectors**

Correspond-
ence
Solicited



Estimates
Furnished

Complete Electric Equipments

FOR CITIES AND TOWNS, MINING
AND MARINE PLANTS, LUMBER,
SHINGLE AND FLOURING MILLS

815-817 2nd Ave., Seattle, Wash.

GAS AND KEROSENE ENGINES.

Northwestern Iron Works, Seattle, Wash.
Campbell & Sons, Seattle, Wash.
Copp & Co., Seattle, Wash.
N. & S. Electric Co., Seattle, Wash.
Adair, G. B. & Sons, Seattle, Wash.
Mitchell, Lewis & Staver Co., Seattle, Wash.

ICE MACHINERY.

American Linde Refrigerator Co., New York.
Vulcan Iron Works, San Francisco, Cal.
Oakland Iron Works, Oakland, Cal.

MARINE FITTING.

Engineers' Supply Co., Seattle, Wash.
Puget Sound Machinery Co., Seattle, Wash.
Mitchell, Lewis & Staver Co., Seattle, Wash.
Shaw & Co., Seattle, Wash.
Schwabacher Hardware Co., Seattle, Wash.
Seattle Hardware Co., Seattle, Wash.
Adair, G. B. & Son., Seattle, Wash.
Tatum & Bowen, Seattle, Wash.
Vulcan Iron Works, Seattle, Wash.
Moran Bros. Co., Seattle, Wash.
Dunham, Carrigan & Hayden, San Francisco, Cal.
Tucker & Co., San Francisco, Cal.
United Engineering Co., San Francisco, Cal.
Crane & Co., Seattle, Wash.
Risden Iron Works, San Francisco, Cal.
Puget Sound Iron & Steel Co., Tacoma, Wash.
Puget Sound Dry Dock & Machinery Co., Tacoma, Wash.

MARINE INSURANCE.

Cook & Co., Seattle and Tacoma, Wash.
Burns & Atkinson, Seattle, Wash.
McGraw & Kittinger, Seattle, Wash.

MECHANICAL DRAFT FOR BOILERS.

Bloomsburg & Co., H., Baltimore, M. D.

PATENT ATTORNEYS.

Barnes & Co., Seattle, Wash.
Mason, Fenwick & Lawrence, Seattle, Wash.

OILS AND LUBRICATIONS.

Standard Oil Co., Seattle, Tacoma, Portland and San Francisco, Cal.

Mitchell, Lewis & Staver Co., Seattle Wash.

Engineers' Supply Co., Seattle, Wash.

Tatum & Bowen, Seattle, Wash.

Puget Sound Machinery Depot, Seattle, Wash.

W. P. Fuller & Co., Seattle, Wash.

Baker & Richards, Seattle, Wash.

Atlantic Refining Co., Cleveland, Ohio.

PACKINGS.

Washington Rubber Co., Seattle and Tacoma.

Gorham Rubber Co., San Francisco and Seattle, Wash.

Engineers' Supply Co., Seattle, Wash.

Vulcan Iron Works, Seattle, Wash.

Puget Sound Machinery Depot, Seattle, Wash.

Mitchell, Lewis & Staver Co., Seattle Wash.

Moran Bros. Co., Seattle, Wash.

Tatum & Bowen, Seattle, Wash.

Peerless Rubber Co., New York.

Bay City Manufacturing Co., San Francisco, Cal.

Garlock Packing Co., Seattle and San Francisco, Cal.

Dunham, Carrigan & Hayden, San Francisco, Cal.

Tucker & Co., San Francisco, Cal.

British Columbia Marine Railway Co., Vancouver, B. C.

Jenkins Bros., New York.

PATTERN MAKERS.

Allmond, C. H., Seattle, Wash.

Vulcan Iron Works, Seattle, Wash.

Heffernan Engine Works, Seattle, Wash.

Moran Bros. Co., Seattle, Wash.

FOUNDRIES.

Variety Iron Works, Seattle, Wash.

Union Brass Foundry Co., Seattle, Wash.

Vulcan Iron Works, Seattle, Wash.

Washington Iron Works, Seattle, Wash.

Moran Bros. Co., Seattle, Wash.

Puget Sound Iron & Steel Co., Tacoma, Wash.

Tacoma Brass & Machinery Works, Tacoma, Wash.

Ollard Bros., Tacoma, Wash.

Vulcan Iron Works, San Francisco, Cal.
United Engineering Co., San Francisco, Cal.
Risden Iron Works, San Francisco, Cal.
Oakland Iron Works, Oakland, Cal.
Albion Iron Works, Victoria, B. C.

MARINE PLUMBING.

Spellman & Co., Seattle, Wash.
Shaw, C. M. & Co., Seattle, Wash.

PUMPS, FEED AND CIRCULATING.

Dow Pump & Engine Co., San Francisco, Cal.
Adair, G. B. & Son, Seattle, Wash.
Moran Bros. Co., Seattle, Wash.
Simond Saw Works, Seattle, Wash.
Engineers' Supply Co., Seattle, Wash.
Puget Sound Metal Works, Tacoma, Wash.
Hallidie, Henshaw & Buckley, Seattle, Wash.
Dunham, Carrigan & Hayden, San Francisco, Cal.
Tucker & Co., San Francisco, Cal.
Worthington, H. R. & Co., San Francisco, Cal.
Honolulu Iron Works, Honolulu, T. H.
Mitchell, Lewis & Staver Co., Seattle Wash.

ENGINE BUILDERS AND MACHINE SHOPS.

Moran Bros. Co., Seattle, Wash.
Vulcan Iron Works, Seattle, Wash.
Heffernan Engine Works, Seattle, Wash.
Northwestern Iron Works, Seattle, Wash.
Marine Iron Works, Seattle, Wash.
Albion Iron Works, Victoria, B. C.
Vulcan Iron Works, San Francisco, Cal.
Risden Iron Works, San Francisco, Cal.
United Engineering Co., San Francisco, Cal.
Union Iron Works, San Francisco, Cal.
Willamette Iron Works, Portland, Or.
Puget Sound Iron & Steel Co., Tacoma, Wash.
Puget Sound Dry Dock & Machinery Co., Tacoma, Wash.
Gas Engine & Power Co., New York.
Chase Machinery Co., Cleveland, Ohio.
Seattle Machinery Co., Seattle, Wash.
Mitchell, Lewis & Staver Co., Seattle Wash.
Campbell & Son., Seattle, Wash.

H. W. MARKEY
Proprietor

* SHOP, PHONE MAIN 1127
RES., PHONE WHITE 441

ESTABLISHED 1887



COMMERCIAL STREET BOILER WORKS

MANUFACTURER AND
REPAIRER OF BOILERS

MARINE WORK A SPECIALTY
ALL KINDS OF SHEET IRON WORK

FIRST AVENUE SOUTH

SEATTLE, WASH.

BOILER MAKERS.

Vulcan Iron Works, Seattle, Wash.
Commercial Sheet Boiler Works, Seattle, Wash.
Queen City Boiler Works, Seattle, Wash.
Standard Boiler Works, Seattle, Wash.
Puget Sound Boiler Works, Seattle, Wash.
Tacoma Steam Boiler Works, Tacoma, Wash.
Ballard Boiler Works, Ballard, Wash.
Reed Boiler Works.
Albion Iron Works, Victoria, B. C.
Victoria Machinery Depot, Victoria, B. C.
Vancouver Iron Works, Vancouver, B. C.
Puget Sound Boiler Works, Tacoma, Wash.
Brady & Son, San Francisco, Cal.
Vulcan Iron Works, San Francisco, Cal.
Tatum & Bowen, Seattle, Wash.
Puget Sound Machinery Depot, Seattle, Wash.
Mitchell, Lewis & Staver Co., Seattle Wash.
Marine Iron Works, Victoria, B. C.
Babcock & Wilcox, Seattle, Wash.
C. C. Moore & Co., Seattle, Wash.

SHIP CHANDLERS.

Sunde & Erland, Seattle, Wash.
Puget Sound Marine Supply Co., Seattle, Wash.
J. C. Todd Ship Chandlery Co., Tacoma, Wash.
Marrian, E. B. & Co., Victoria, B. C.
Mitchell, Lewis & Staver Co., Seattle Wash.
Puget Sound Machinery Depot, Seattle, Wash.
Engineers' Supply Co., Seattle, Wash.
Dunham, Carrigan & Hayden, San Francisco, Cal.
Seattle Hardware Co., Seattle, Wash.
Schwabacher Hardware Co., Seattle, Wash.

SALVAGE COMPANIES.

Tacoma Tug & Barge Co., Tacoma, Wash.
The Alaska Co., Seattle, Wash.
British Columbia Salvage Co., Victoria and Vancouver, B. C.

ELECTRIC ENGINEERING AND CONSTRUCTION
COMPANIES.

Kilbourne Clarke Co., Seattle, Wash.
Seattle Electric Co., Seattle, Wash.

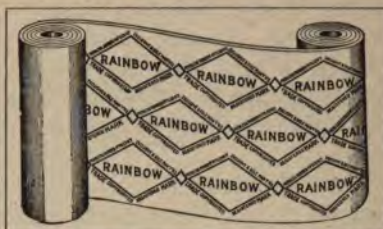
RAINBOW PACKING

MAKES STEAM FLANGE AND HOT WATER JOINTS INSTANTLY

THOUSANDS
OF IMITATORS

NO EQUAL

WILL HOLD
HIGHEST
PRESSURE



DON'T HAVE
TO USE WIRE
AND CLOTH TO
HOLD RAINBOW

CAN'T BLOW IT
OUT - - -

THE COLOR OF RAINBOW PACKING IS RED

See that our Trade Mark, the word "Rainbow" in a diamond, in three rows of diamonds in black, connected, extends throughout the entire length of each yard or roll.

THE PEERLESS SPIRAL PISTON AND VALVE ROD PACKING



It will hold 400 lbs. of steam. Once tried
always used.

1-4 TO 2 Inches Diameter

Will run twelve months in high speed engines

IN BOXES 3 TO 8 POUNDS

Sole manufacturers of the famous "Eclipse Sectional Rainbow Gasket," "Honest John," "Hercules Combination," "Success," "Arctic," "Germane" and "Zero" packings.

WRITE FOR CATALOGUE

MANUFACTURED, PATENTED AND COPYRIGHTED EXCLUSIVELY BY

THE PEERLESS RUBBER MANUFACTURING CO.

16 WARREN STREET, NEW YORK

FOR SALE BY ALL FIRST CLASS DEALERS

Z. C. Miles & Piper Co., Seattle, Wash.
Electric Engineering and Construction Co., Tacoma, Wash.
Electric Engineering Co., Seattle, Wash.
California Electric Co., San Francisco, Cal.
Erickson & Wyman, Seattle, Wash.
N. & S. Electric Co., Seattle, Wash.

TOWING MACHINES.

Chase Machine Co., Cleveland, O.

TUG BOAT COMPANIES.

Tacoma Tug & Barge Co., Tacoma, Wash.
Folsom, F. H., Seattle, Wash.
Elliott Bay Tug Boat Co., Seattle, Wash.
Puget Sound Tug Boat Co., Seattle, Wash.
Stevenson Blekum Tug Co., Seattle, Wash.
Alaska Co., Seattle, Wash.
Chesley & Bridge, Seattle, Wash.
Queen City Towing Co., Seattle, Wash.
Seattle Tug Co., Seattle, Wash.
Pacific Clipper Co., Seattle, Wash.

BEARING METALS.

Finn Metal Works, Seattle and San Francisco.
Goods Metal Works, Seattle, Wash.
Puget Sound Metal Works, Tacoma, Wash.
Tatum & Bowen, Seattle, Wash.
Mitchell, Lewis & Staver Co., Seattle Wash.
Puget Sound Machinery Depot, Seattle, Wash.
Vulcan Iron Works, Seattle, Wash.

STEAMSHIP AGENTS.

Chilberg, Andrew, Seattle, Wash.
Bell, F. A. & Co., Seattle, Wash.
Cook & Co., Seattle, Wash.
Damus & Osmer, Seattle, Wash.
Dudley, W. L., Seattle, Wash.
Gray, L. H., Steamship Agency, Seattle, Wash.
Johnson, A. E. & Co., Seattle, Wash.
Pacific Coast Co., The, Seattle, Wash.
Swift, E. A., Seattle, Wash.



**Carbon Hill
Coal Co.**

**Miners and
Distributors**

A STRICTLY Bituminous Coal, with coking qualities sufficient to insure complete combustion within the heating surface, thus giving satisfactory and economical results over gassy, semi-bituminous coals which burn a large per centage of their volatile matter in the stack.

The first instance is yet to be reported of fire in funnel while burning Carbonado Coal.

This coal gives most satisfactory results when used with either natural or forced draft and under any style of boiler, and at the same price will give at least 15 per cent more economical results than any other coals mined in the State of Washington.

**Mines at Carbonado, Washington
Bunkers at Tacoma AND West Seattle**

OFFICE, Pier 1, - - SEATTLE

WASHINGTON COAL OUTPUT FOR 1902.

OUTPUT BY MINES.		
Name of Company—	Mine Location and County.	No. tons mined.
N. W. Improvement Co.....	Roslyn, Kittitas.....	1,005,027
Carbon Hill Coal Company.....	Carbonado, Pierce	325,000
Wilkeson Coal & Coke Co.....	Wilkeson, Pierce	125,028
South Prairie Coal Company.....	Burnette, Pierce	77,255
Western American Company.....	Fairfax, Pierce	30,513
Gale Creek Company.....	Wilkeson, Pierce.....	25,000
Pacific Coast Company.....	New Castle, King.....	124,300
Pacific Coast Company.....	Franklin, King	158,800
Pacific Coast Company.....	Franklin Gem, King.....	46,500
Pacific Coast Company.....	Lawson, King.....	57,200
Black Diamond Coal Mining Company....	Black Diamond, King.....	227,000
Cedar Mountain Coal Company.....	Cedar Mountain, King.....	13,500
Issaquah Coal Company.....	Issaquah, King	125,000
Seattle Electric Company.....	Renton, King	100,000
Fred Nolte Company.....	Cumberland, King... ..	9,000
Seattle & San Francisco Ry. & Nav. Co..	Leary, King.. ..	63,578
Blue Canyon Coal Company.....	Blue Canyon, Whatcom.....	48,200
Skagit Coal & Coke Company.....	Cokedale, Skagit	12,643
Total.....		2,573,541

FUELING COMPANIES AND COAL DEALERS.

Pacific Coast Coal Co., Seattle, Wash.
 Issaquah Coal Co., Seattle, Wash.
 Black Diamond Coal Co., Seattle, Wash.
 Roslyn Coal Co., Seattle, Wash.
 Queen Coal Co., Seattle, Wash.
 Carbon Hill Coal Co., Seattle and Tacoma, Wash.
 Gale Creek, Coal Co., Seattle, Wash.
 Northwestern Improvement Co., Tacoma, Wash.



"Cincinnati's" Boiler, B. & W. "Alert" Type.
Section showing path of gasses.

Babcock & Wilcox Patent Sectional Safety Water Tube Marine Boiler

CONSTRUCTION AND OPERATION.

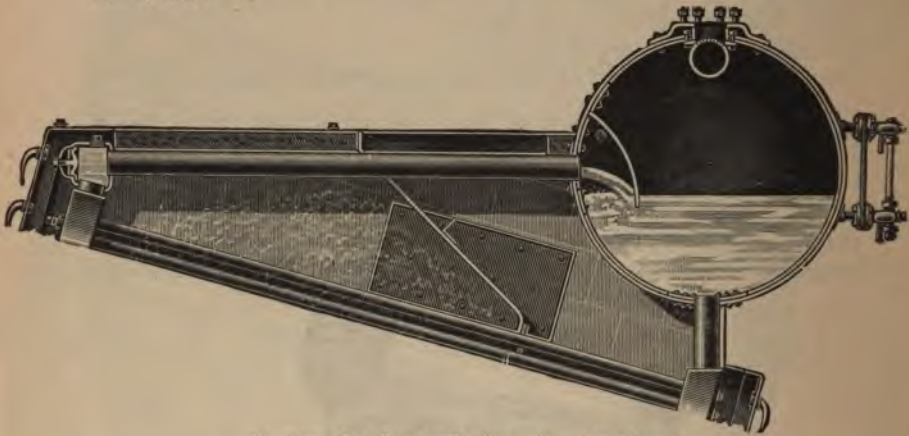
This boiler is composed of heavy seamless steel tubes placed in an inclined position 15 degrees from the horizontal in vertical rows and connected with a horizontal steam and water drum situated above and crosswise the highest end of the tubes. Each vertical row of tubes is connected into a single wrought steel header or manifold of sinuous form, allow-



Forged Steel Section (Patented).

ing the tubes to the staggered, thereby breaking up and thoroughly mixing the currents of hot gases in their passage across

the heating surface. The holes in these headers into which the tubes are expanded are drilled to accurate size and made tapering toward the inner part of the header. The sections are connected with the steam and water drum at one end and at the opposite end to the mud drum by means of short tubes or nipples 4 inches in diameter expanded into bored holes, doing away with all bolts and leaving a clear passageway for the flow of steam and water between the various parts composing the boiler.



Section showing baffle insuring dry steam.

In order to insure positive homogeneity and consequent reliability all pressure parts are constructed entirely of open hearth steel plate and no malleable or cast iron or cast steel is used. Each header is provided with openings facing the end of each tube and of sufficient size to permit the inspection, cleaning, removal, renewal or plugging of the tube. Each of the 4-inch tubes is provided with a hand hole exceeding 4 inches diameter and is closed with a wrought steel elliptical plate or safety clamp on the pressure side of the header, drawn to its seat by a forged steel bridge and nut, the joint being made against a faced seat on the inside of the header by means of a thin asbestos gasket. Each section is tested and made tight under a hydrostatic pressure of 600 pounds to the square inch. Should a tube become defective from any cause it may be renewed or temporarily plugged, as both ends are accessible.

All necessary repairs can be made by the ship's staff, as the only tools required are a ripping chisel and an ordinary expander, the operation of which is familiar to every engineer.

The side sections of tubes are continued down to a level of the grate and form the furnace sides. These boxes are

made of extra heavy forged steel of 6 inch square section and are located one above the other on the same angle as the tubes. They take the place of brickwork and insure a cool side casing prevent the adhering of clinkers and are of sufficient thickness to withstand the wear and tear of the fire tools.

Placed across the lower ends of the front headers and connected thereto by seamless 4-inch nipples in a forged steel box of 6-inch square section; this box, situated beneath the lowest point of the front headers, forms a blow-off connection or mud drum from which the boiler may be completely drained.

The steam and water drum is made of open hearth steel, usually 42 inches diameter, and the longitudinal seams are butted and strapped inside and out. These seams have four rows of rivets, and the butt straps are formed in hydraulic



presses to the curvature of the drum. The drum heads are hydraulic forged, and before assembling the drum is tested and made tight under a hydrostatic pressure of 450 pounds to the square inch.

The placing of the steam and water drum horizontal with its centre on the water line of the boiler provides a large body of water where it is most needed and where changes in the volume of water carried least affect the levels in the gauge glasses.



The fire is made under the front and lower end of the tubes and the products of combustion pass upward to the bottom row of 4-inch tubes, on top of which is placed a layer of baffle

brick extending about two-thirds the length of the tubes and toward the rear of the boiler. The heated gases then travel to the rear of the boiler and rise vertically between the tubes into a chamber at the rear of the steam and water drum. From thence, guided by vertical baffles, they pass down between the tubes to the upper side of the horizontal baffle first mentioned and thence once more up between the tubes and off to the chimney. In order to insure the gases traveling three times across the tubes as mentioned it has been necessary to divide the heating surface into sections by means of vertical baffles, and the circuitous route which the gases are compelled to follow causes them to impart to the tubes the greatest possible amount of heat. The distance traveled by the products of combustion in contact with the heating surface is about sixteen feet, hence good economy is maintained with high rates of combustion and a low uptake temperature assured. The interval for the absorption of heat so necessary for economy is longer than in any other type of marine water tube boiler. As the furnace increases in height approaching the bridge wall the gases have both space and time in which to thoroughly mix and burn before entering the bank of tubes forming the heating surface. By this arrangement a high furnace temperature is established—one of the essential requirements of high efficiency.

The circulation of the water is as follows: Heat being applied to the inclined tubes and vapor formed, the mingled column of steam and water being of less specific gravity than the solid water at the end of the boiler, rises through the vertical headers and flows through the horizontal return tubes at the top to the steam and water drum, where the steam separates from the water and the latter drops down again through the front headers and up the inclined tubes, thereby forming a continuous circulation. As the passages are all large and free this circulation is very rapid, sweeping away the steam as fast as formed and supplying its place with water; absorbing the heat of the fire to the best advantage; causing a thorough commingling of the water throughout the boiler and a consequent equal temperature. This to a great degree prevents deposits or incrustations upon the heating surface, sweeping them away and into the mud drum, from which point they may be blown off.

By distributing the heating surface into sectional elements all danger from unequal expansion due from raising steam quickly or from sudden cooling, is overcome, as the comparatively thin tubes effect a ready transmission of heat to the

water within them, so that the fiercest fire cannot overheat or injure the tubes as long as the inner surface is covered with water and free from oil and scale. The thick plates necessarily used in ordinary shell boilers are exposed to the fierce heat of the furnace and hinder the transmission of heat to the water, thereby permitting of overheating and burning the side in contact with the fire. This results in strains with consequent loss of strength, cracks and tendency to rupture, as is evidenced by many boiler explosions.

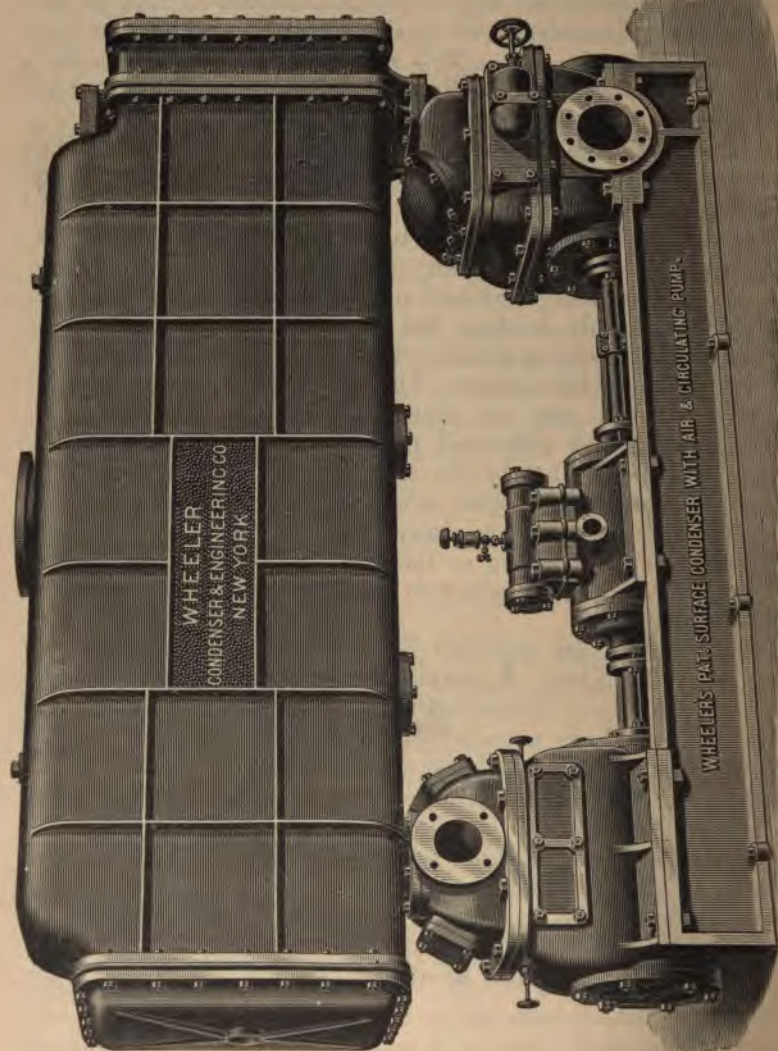
Surrounding the pressure parts, and firmly bolted to the foundation, is a structural iron framing to which the casing plates are fastened.

The spaces between the side tubes are filled with light fire tiles made of highly refractory fire clay. Against these are placed asbestos mill-board and magnesia block covering. On the outside, firmly holding the non-conducting materials in position, are the casing plates, which are clamped to the structural framing by butt straps. This method of fastening allows of easy removal, and on replacing makes an air-tight joint without the use of additional packing. The efficiency of the casing is demonstrated by the fact that the hand can be held upon the side of the boiler, when steaming, without discomfort, and the stoke hold is always cool.

Hinged to the framing at the front and rear of the boiler are large doors, giving access to the hand-hole plates covering the tube ends.

Ample means are provided for blowing the soot from the exterior of the tubes. A steam lance may be inserted through small dusting doors empaneled in the side casing, as shown on small dusting doors empaneled in the side casing, and communicating with the spaces between the rows of tubes. Each opening is covered by a shutter sliding vertically, which can be opened and shut by the lance. As the seat for this shutter is beveled, it tends on falling to wedge itself into position, thereby making an air-tight joint.

As all cleaning of soot from the exterior of the tubes is performed from the sides, the continuous steaming of the boiler and coaling of the grates by the stokers are not in any way hindered.

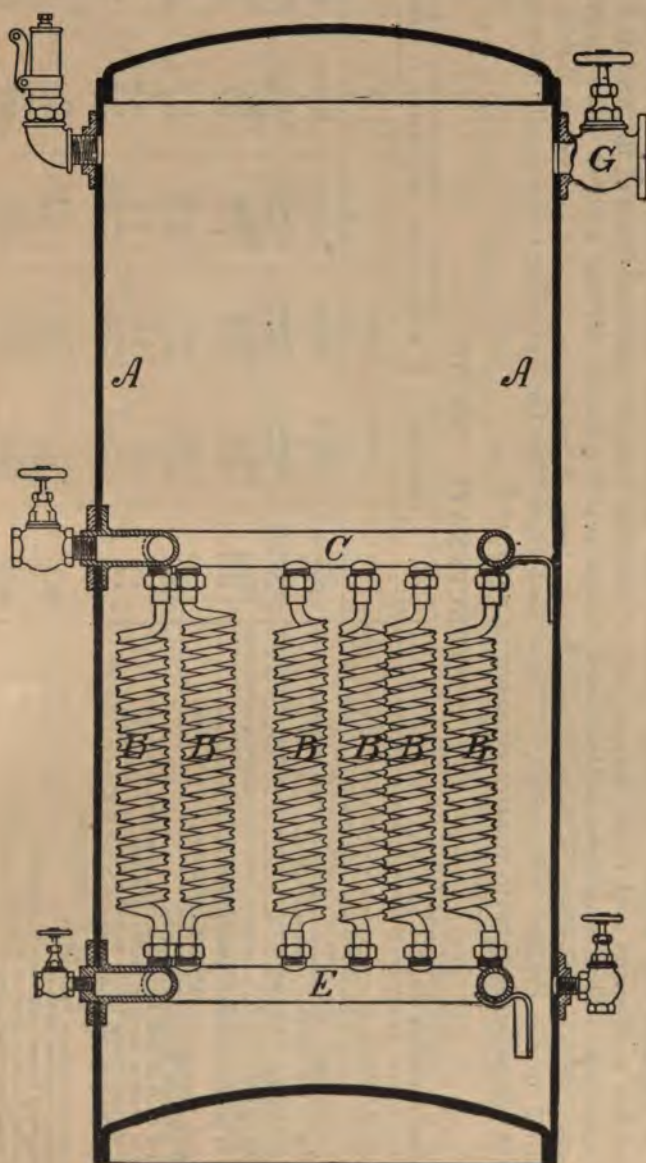


WHEELER ADMIRALTY TYPE SURFACE CONDENSER

Chas. C. Moore & Co., Pacific Coast Representatives. (See inside of back cover.)



CROSS SECTION OF EVAPORATOR COIL



REILLY EVAPORATOR.
Chas. C. Moore & Co., Pacific Coast Representatives. (See inside back cover.)

The capacity of any marine boiler is a point of great importance and upon it depends in a large measure its satisfactory performance in several particulars. Unless sufficient steam and water capacity is provided there will not be regularity of action; the steam pressure will suddenly rise and as suddenly fall, and the water level will be subject to frequent and rapid changes; all of which is relative to the condition of the fires and varying furnace temperatures. That watertube boilers lend themselves to extreme forcing without what might be termed an excessive drop in efficiency is fully exemplified by tests of one of the six (6) Babcock & Wilcox boilers recently installed in the cruiser "Cincinnati." These tests show that the watertube boiler is all that could be desired as far as excess capacity with relative efficiency is concerned.

"CINCINNATI" TESTS.

Engineers conducting tests.....		Lieut.-Com. A. B. Willis, U. S. N., and Lieut. B. C. Bryan, U. S. N.						
Number of tests.....		1	2-H	3-H	4	5	6-H	7
Date of tests, 1900.....	June 15	June 16	June 18	June 19	June 20	June 21	June 22	
Duration of test, hours.....	8	8	6	6	4	4	3½	
Kind of start.....	Alternate	Alternate	Alternate	Alternate	Alternate	Alternate	Alternate	
State of weather.....	Clear	Clear	Clear	Clear	Clear	Clear	Clear	
Heating surface.....	2640	2640	2640	2640	2640	2640	2640	
Grate surface.....	63.25	63.25	63.25	63.25	62.0	62.0	63.25	
Ratio of heating surface to grate surface.....	41.74	41.74	41.74	41.74	50.8	50.8	41.74	
Average Pressures								
Gaugometer, inches.....	209.3	30.18	30.12	30.22	30.20	30.09	30.02	
Steam pressure by gauge, pounds.....	—10	206.6	210.6	207.4	213.6	209.8	210.8	
Force of draft at base of pipe, inches of water.....	—10	—36	—09	—13	—84	—37	—1.48	
Force of draft in furnace, inches of water.....	—10	—09	—08	—13	—84	—37	—1.48	
Force of draft in ash pit, inches of water.....	—25	—11	—11	—13	—17	—17	—1.69	
Force of draft in closed fire room.....	—25	—33	—17	—14	—14	—14	—1.78	
Average Temperatures								
External air, degrees Fahrenheit.....	.....	84.7	80.2	75.8	80	85	90.7	
Fire room, degrees Fahrenheit.....	101.5	99.5	98.2	101.8	109.3	115.4	117.0	
Air entering heater, degrees Fahrenheit.....	.....	93.4	94.1	.....	.....	106.1	.....
Air leaving heater, degrees Fahrenheit.....	.....	206.2	235.9	.....	.....	259.5	.....
Feed water entering boiler, degrees Fahrenheit.....	107.5	108.2	108.2	101.8	103.3	102.0	99.7	
Air entering ash pit, degrees Fahrenheit.....	101.5	206.2	235.9	101.8	109.3	259.5	117	
Escaping gases from boiler, degrees Fahrenheit.....	466	493	608.6	570.6	640.0	637	{ Less than	
Escaping gases from heater, degrees Fahrenheit.....	.....	458	569	.....	.....	674	{ 90° F.	

Fuel	Run of mine	Screened	Screened	Screened	Screened	Twice Screened
Kind, Pocahontas coal.....						
Weight of coal as fired, pounds.....	10345	12925	13517	10600	10046	12600
Moisture in coal, per cent.....	4.06	1.6	1.5	1.13	1.0	0.88
Weight of dry coal consumed, pounds.....	9925	12718	13314	10480	9946	12489
Weight of ash and refuse, pounds.....	946	1088	1177	949	1055	1055
Weight of combustible consumed, pounds.....	8929	11630	12046	9303	9097	11434
Refuse in dry coal, per cent.....	10.03	8.55	9.52	11.23	9.64	8.45
Fuel per Hour						
Dry coal consumed per hour, pounds.....	1240.6	2119.7	2219	2620	2486.5	3747
Dry coal consumed per hour per square foot grate surface, pounds.....	13.61	33.31	35.08	50.38	47.81	69.23
Dry coal per hour per square foot heating surface, pounds.....	.470	.803	.840	.992	.942	1.419
Quality of Steam						
Per cent. of moisture in steam.....	0	0	0	25	.16	0
Degrees of superheating.....	0	0	0	.....	.....	.....
Quality of steam (dry steam=100).....	100	100	100	99.75	99.84	100
Water						
Total weight of water fed to boiler, pounds*.....	93928	113943	118330	91065	86188	102545
Water actually evaporated, corrected for quality of steam, pounds.....	93928	113943	118330	90838	86380	102545
Factor of evaporation.....	1.1657	1.1705	1.171	1.1704	1.1715	1.173
Equivalent water evaporated into dry steam from and at 212° lbs.....	109492	133370	138586	106317	101159	120285
Water per Hour						
Water evaporated per hour, corrected for quality of steam, pounds.....	11741	13974	13722	22709	21022	30763.5
Equivalent evaporation from and at 212°, pounds.....	13086	22228	23098	26579	25290	36086
Actual evaporation per square foot grate surface, pounds.....	185.7	300.0	311.8	436.7	415.7	486.3
Equivalent evaporation from and at 212 degrees per square foot grate surface, pounds.....	216.3	351.4	3652	511.1	486.3	570.5
Same per square foot of heating surface, pounds.....	5.18	8.42	8.75	10.07	9.58	13.67
Economic Results						
Water evaporated under actual conditions per lb. of dry coal, lbs.....	9.47	8.96	8.88	8.67	8.68	8.21
Equivalent evaporation from and at 212° per lb. of dry coal, lbs.....	11.03	10.49	10.41	10.14	10.17	9.63
Equivalent evaporation from and at 212° per lb. of combustible, lbs.....	12.19	11.47	11.50	11.43	11.12	10.52
Efficiency						
British thermal units per pound of dry coal.....	14616	14344	14563	14560	14283	14685
Efficiency of boiler, dry coal basis.....	73.1	70.6	70.1	67.5	69.0	63.4

*Corrected for inequality of water level and steam pressure at beginning and end of test.

REMARKS AND OBSERVATIONS.—In tests marked H the air heater was in use.

Principal data taken every fifteen and thirty minutes.

The percentage of smoke as observed, using Ringelman smoke charts: Test 1, No. 0 to No. 1 and as high as No. 4 when firing; test 2 H, No. 0 to No. 1, with puffs of No. 4 when firing; test 3-H, No. 1 to No. 2, with puffs of No. 4 when firing; test 4, No. 2 to No. 3, with puffs of No. 4 when firing; test 5, No. 1 to No. 3 with puffs of No. 4 when firing; test 6, about No. 2, with puffs of No. 4 when firing; test 7, average about No. 3, with puffs to No. 5 when firing.

Kind of firing: Spreading and slicing.

Average thickness of fires: Tests 1 and 2-H, 6 inches; test 3-H, 7 inches; tests 4, 5, 6 and 7, 6 inches.

Average interval between firings for each furnace during time fires were in normal condition: Eight to ten minutes.

Average interval of heating up: Eight to ten minutes.

Efficiency of firemen: Expert.



U. S. BATTLESHIP NEBRASKA

DESCRIPTION OF THE GREAT WAR VESSEL NOW
BEING BUILT BY MORAN BROS. COMPANY.

The entire Northwest has been greatly interested in the contract secured by Moran Bros. Company for the building of one of the new battleships for the United States Navy, and takes great pride in the fact that this ship and its sister ships now under construction in Eastern shipyards are the heaviest, largest and fastest ships ever built for the United States Navy.

The ship now under construction by Moran Bros. Company is known as battleship No. 14, and has been named "Nebraska." The general dimensions and chief characteristics of this vessel are as follows:

Length on load water line.....	435 feet.
Length over all.....	441 feet 3 inches
Breadth moulded.....	76 feet
Extreme breadth.....	76 feet 2 1-2 inches
Draft moulded.....	23 feet 6 5-8 inches
Draft beam.....	23 feet 9 inches
Displacement.....	14,950 tons

In the 14,950 tons represented in this vessel the many antagonistic qualities essential to a perfect fighting machine have been compromised and incorporated in proportions which experience seems to have pointed out as the most desirable and efficient. To begin with, this battleship will have a speed of at least nineteen knots, which compares most favorably with any battleship under construction abroad, as well as with any in the projected stage.

The vessel will be propelled at this high speed by twin screws driven by two four-cylinder, triple expansion engines of about 19,000 I. H. P., having a stroke of four feet, running, under conditions of maximum speed at about 120 revolutions per minute. The steam necessary to this power will be supplied at a pressure of 250 pounds by twelve straight water tube boilers, placed two in each of six independent water-tight compartments.

The "Nebraska" will have two main middle line turrets for 12-inch guns superposed by turrets for 8-inch guns.. There is also one broadside turret on each side for 8-inch guns.

The main battery is to consist of:

- 12 4-inch breach loading rifles,
- 8 8-inch breech loading rifles,
- 12 6-inch breech loading R. F. rifles.

The secondary battery is to consist of:

- 12 3-inch R. F. guns,
- 12 3-pounder semi-automatic guns,
- 4 1-pounder heavy R. F. automatic guns,
- 4 1-pounder heavy R. F. guns,
- 2 3-inch field pieces,
- 2 machine guns, 0.30 calibre,
- 6 automatic guns, 0.30 calibre,
- 2 submerged torpedo tubes.

Experience having shown that above-water torpedo tubes are not only inefficient weapons, but a menace to their possessors, the vessel is fitted only with submarine torpedo tubes. Two of these are located in one compartment, one on each side, fitted for the discharge of the large 18-inch Whitehead torpedo, and provision is made for carrying stored in the torpedo room six of these formidable engines of war. The magazines of the vessel will be specially fitted to enable it to carry with absolute safety in all climates, the new smokeless powder, and with this end in view, provision is being made for their artificial cooling, by pipes led from the cold storage system of the vessel, in such cases as may be necessary. Provision will be made in the magazines for the stowage of at least 60 rounds for each of the 12-inch guns, representing a weight of about 144 tons; 125 rounds for each of the 8-inch guns, weighing about 180 tons; 200 rounds for each of the 6-inch guns, the weight of which will be about 190 tons; 500 rounds for each of the 3-pounder and 1-pounder guns, and an almost inexhaustible supply of ammunition for the smaller guns.

So much for the vessel's offensive qualities. To make its defensive qualities proportionately great it is to be provided with a complete water line belt of armor 8 feet in width amidships, 11 inches thick at the top and 8 inches at the bottom, tapering to a uniform thickness of 4 inches at the ends of the vessel. It will also have an armored belt extending over 245 feet of its length, of a uniform thickness of 6 inches, rising from the top of the main belt to the upper or main deck, and joined at its after end to the barbette of the 12-inch turret by a 6-inch armored bulkhead,* and having at its forward end an incline armored bulkhead from side to side 6 inches thick, thus forming a citadel or redoubt within which the 6-inch

guns will be mounted. The barbettes for the turrets of the 12-inch guns are to be 10 inches in thickness for that portion outside of the redoubt or citadel, reduced to 6 inches in thickness within. The turrets themselves will be protected by armor 10 inches in thickness, the portholes, however, being 11 inches. The 8-inch turrets will in all cases, whether superposed or independent, be protected by 6 inches of armor with 6 1-2-inch port plates, and their barbettes will be protected by similar armor. The conning tower and its shield will be 9 inches in thickness, and the armored tubes will be protected by 6 inches of armor, and will be of sufficient size not only to receive all the voice pipes, wiring, etc., but to also permit of their being used as a passageway, if necessary. In addition to the conning tower there will be aft a second tower known as the signal tower, which will be protected by 5-inch armor. From the bottom of the water line armor belt there will rise a curved turtle-backed nickel steel protective deck 1 1-2 inches thick on the flat and 3 inches thick on the sloping sides, to make assurances doubly sure that no projectile of the enemy finds its way into the vitals of the ship. As an additional protection to stability, a cofferdam belt 3 inches in thickness and packed to a density of 8 pounds to the cubic foot, will be worked along the two sides, above the protective deck, for the entire length of the vessel.

The material of construction will, of course, be of the high quality of steel which has entered into all the vessels of our Navy. The main or upper deck, in addition to being built of steel, will be the only one upon which wood is to be laid. The lower decks will be of steel, covered with linoleum or some other like material.

This vessel is designed to be used as a flag ship and will have provision for the accommodation of one flag officer, one commanding officer, one chief of staff, twenty ward room officers, twelve junior officers, ten warrant officers and 658 crew and marines, making a grand total of 703. Both officers and crew will have wash rooms, bath rooms and other similar conveniences, such as will place the comfort and healthfulness of this vessel very high in the scale.

The applications of electricity on board are very much wider than in the case of any other battleships in existence, with the possible exception of the Kearsarge and Kentucky. All of the turrets have electrical turning gear, and the ammunition hoists, blowers to the turrets and general ventilation, the general workshop, and practically all of the auxiliaries, outside

of the engineers' department and excepting capstan and steering gear, are to be electrically driven.

The "Nebraska" will be about 85 feet longer and about 7 feet broader than the battleship "Oregon," and about 75 feet longer and 4 feet 3 inches broader than the battleship "Iowa."

Some of the plates and castings used in the ship will be of large dimensions and great weight, among which may be mentioned the solid steel castings for the ram, which will weigh not less than 45,000 pounds.

Moran Bros. Company are well advanced with the designing and other preliminary work on this vessel and are now receiving materials for construction and expect to begin the actual work of building the ship about January 1st. Their contract calls for the completion of the ship in three years, and the contract price is \$3,723,600.00.

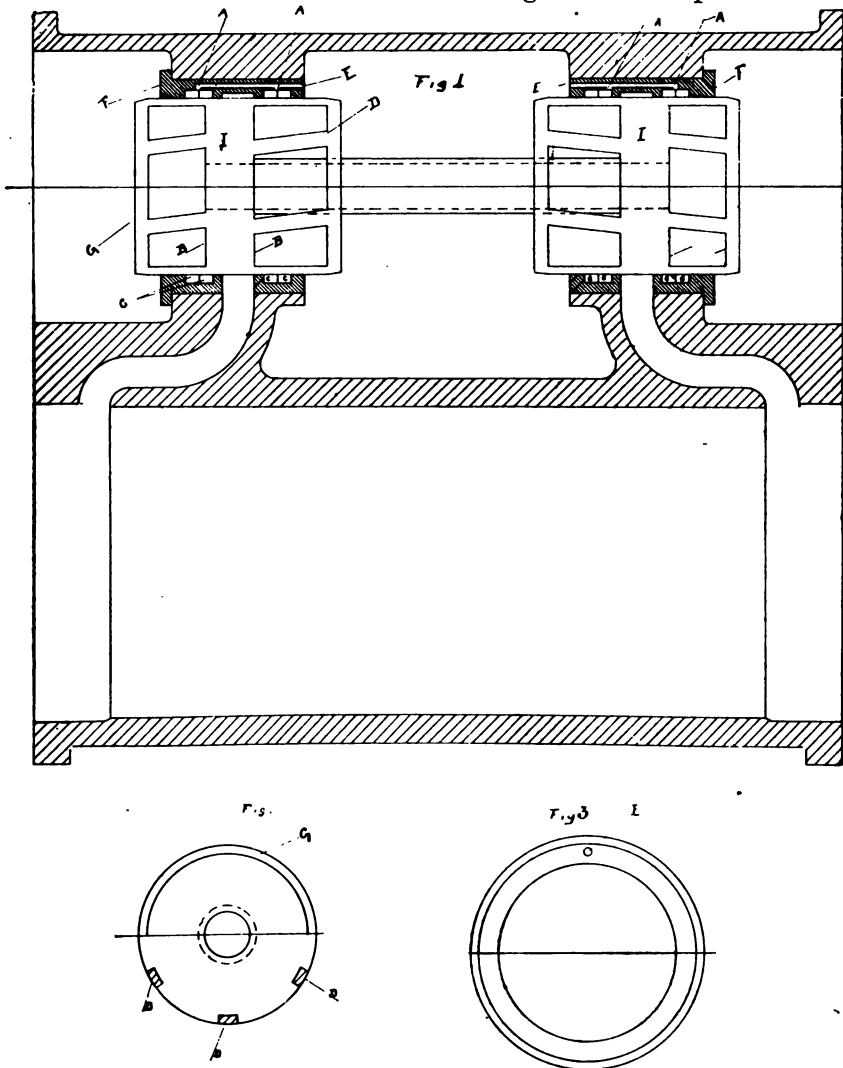
Moran Bros. Company also have under construction at the present time a Light-House Tender to be named "Heather" for service under the direction of the Light-House Board in the waters of the North Pacific. This vessel will be completed within a year.

Moran Bros. Company have made extensive improvements to their plant for the purpose of successfully carrying on these large contracts, and have as complete a plant as any in the United States, although in some respects it is not as large as some of the older established shipbuilding concerns. These contracts will not in any way interfere with the general repair and manufacturing business they have heretofore carried on, but the improvements made in their plant will facilitate this class of work and enable them to do a much larger business in this line than heretofore.

JOHN J. SMITH.

Heffernan Patent Piston Valve

This is a new design of valve, embodying, as it does, a balanced valve and a valve that is steam-tight under all pressures.



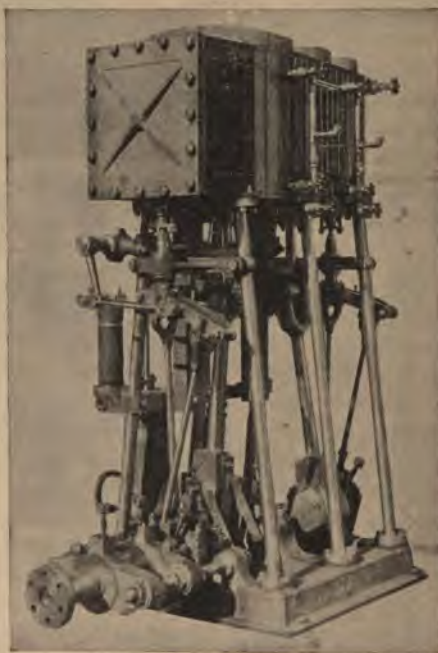
The valve is composed of a valve body, marked I, and to this valve body are wings extending on each side of it. In the

HEFFERNAN ENGINE WORKS

BUILDERS
OF

MARINE ENGINES COMPOUND AND TRIPLE EXPANSION

As Designed by J. T. Heffernan, Mechanical Engineer



We make a Specialty of Marine Repairs. Complete Cylinder Boring Machines from 2 to 84 inches; also a machine for planing valve seats in place, and are fitted for putting in crank pins and turning main journals and thrust collars without taking out shaft.

WE ARE PREPARED TO GIVE FIGURES
ON ALL CLASSES OF MARINE WORK

Office Phone Main 217
Res. Phone Buff 1971

108 Railroad Avenue

chest are pressed the linings shown at F, and in these linings recesses are cut to receive packing rings, and from the back of the packing rings there is a channel way cut, shown at A, which lead into and through the small exhaust port E, which in turn leads into the main exhaust port, so that no high steam pressure can get in back of the rings and set them up hard on the valve, but, on the other hand, the rings are always connected through the port E with the exhaust pressure, which holds them up easy and without much friction to the valve.

What we claim for this valve is, that it is steam-tight under all pressures and all conditions and is much more economical in the use of steam. So much so that we agree to put this valve in any engine that now has a piston valve in her and take our pay in the saving of fuel. The valve and seats will be shown to any one calling at our works.



Columbia River & Puget Sound Navigation Co.'s Str. "FLYER."
Travelled in 1902, 77,056 miles in 344 days.



IF YOU

are seeking advancement
in position and salary is
there anything that will
push you ahead in that
direction as much as an

INDICATOR?

The IMPROVED ROBERTSON-THOMPSON is the
most up-to-date, most perfect and the cheapest good
Indicator made. : : : : : : :




The
"High
Pressure"
Packing

Do
Not . .
Accept
Imitations

"METALBESTOS"—Trade Mark—Patented

The genuine has a core of the CELEBRATED RUBBERBESTOS COMPOUND, assuring elasticity and durability. It is made of Finely Spun Asbestos, with a cover of soft metallic wire. It is the engineer's favorite for use in places where high pressures are carried.

FOR SALE BY  **PUGET SOUND MACHINERY DEPOT** SEATTLE, WASH.



United States Battleship Oregon

BLACK DIAMOND COAL MINING CO.



204 FIRST STREET.

Telephone No. 466

SAN FRANCISCO, CAL.

N. H. MARTIN, AGENT

COR. RAILROAD AND KING

SEATTLE, WASH.

Seattle Telephone Main 91

P.O. Box 481

GREEN RIVER COLLIERIES AT BLACK DIAMOND, WASH.

The adjoining cut represents the popular new Royal Mail Twin-Screw Steamship "TUNISIAN," with unsurpassed first and second cabin accommodations. She will carry our

North Cape Spitzbergen Tourists

from Seattle and other Pacific Coast points next Spring (option side trips to London, Paris, Berlin, Stockholm, Gothenburg, Christiania, Thronhjem)

TO THE LAND OF THE MIDNIGHT SUN

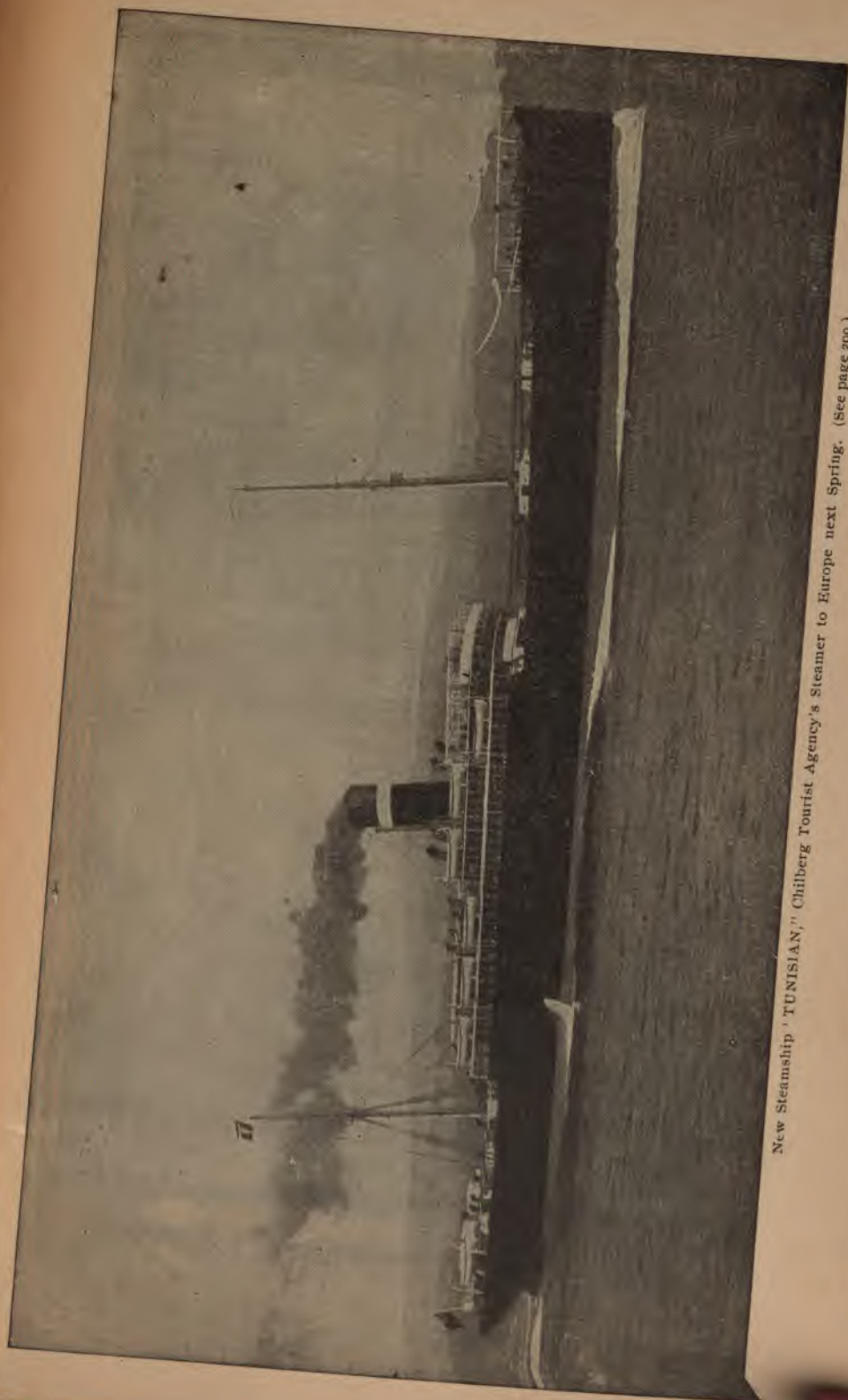
Excursion includes hotels, meals, carriage drives, guides and sight-seeing. Trip can be made in 40 days. Cost \$250 and up.

OBSERVE.—Our Mr. A. Chilberg and wife will be in the party.

For early reservation apply to

A. CHILBERG,

President Scandinavian-American Bank,
Vice Consul Sweden, Norway, SEATTLE, WASH.



New Steamship 'TUNISIAN,' Chilberg Tourist Agency's Steamer to Europe next Spring. (See page 200.)



Pacific Clipper Line's S. S. Nome City



S. Willey Steamship and Navigation Co.'s Str. Multnomah



Alaska Steamship Co.'s Str. Dolphin



Puget Sound Navigation Co.'s Str. Majestic



Puget Sound Navigation Co.'s Str. Rosalie



Pacific Coast Steamship Co 's Str. Sehome



STEAMERS QUEEN AND CITY OF TOPEKA AT MUIR GLACIER, ALASKA. Reached only via PACIFIC COAST STEAMSHIP CO. SAN FRANCISCO.



SENATOR, PACIFIC COAST STEAMSHIP CO.



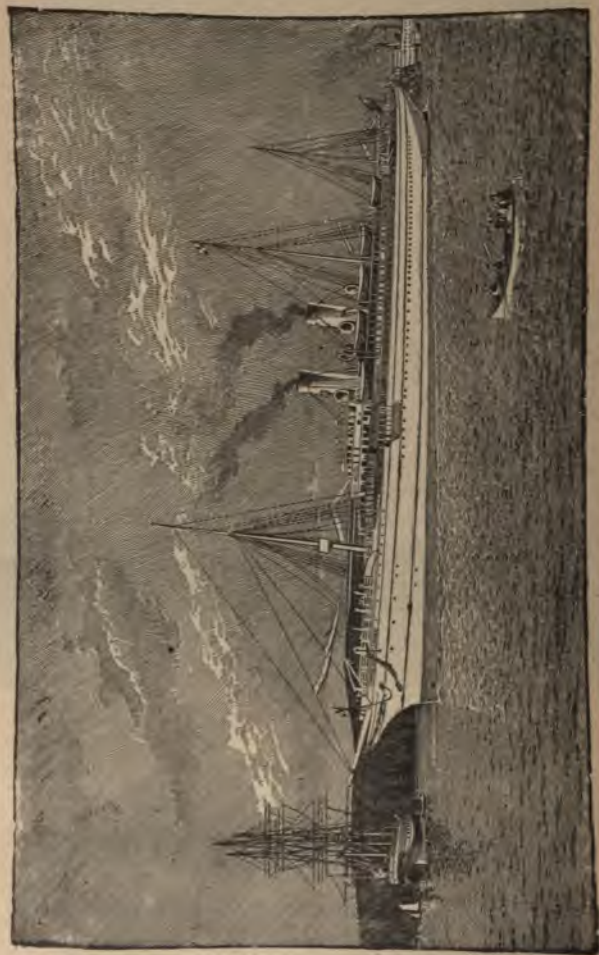
Pacific Coast Steamship Co.'s S. S. Santa Rosa



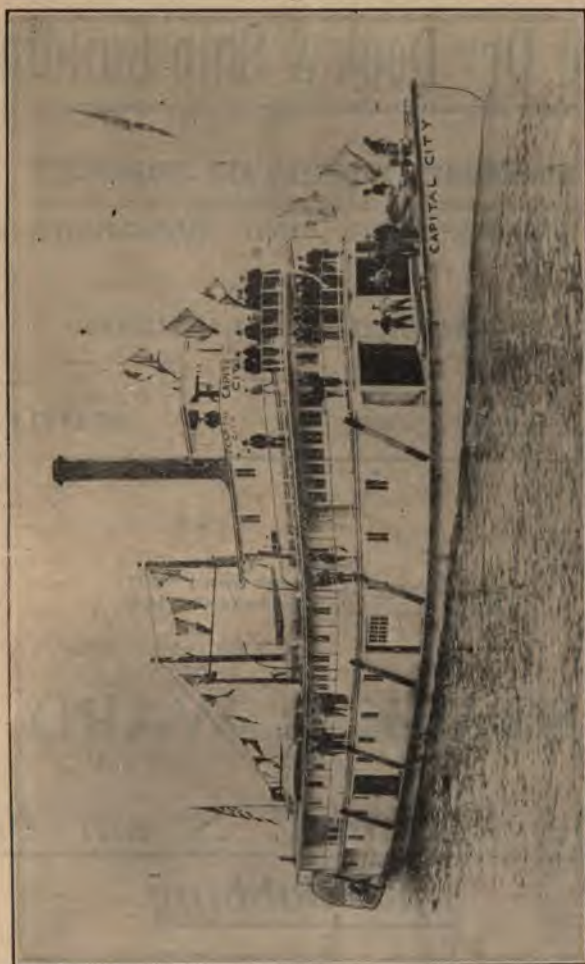
Pacific Coast Steamship Co.'s Str. Cottage City



Pacific Coast Steamship Co.'s Str. Queen



Canadian Pacific Railway Co.'s Transpacific Royal Mail Steamship "Empress of India."



S. Willey Steamship and Navigation Co.'s Str, Capital City

Office Phone Main 485

Yard Phone, Ballard Main 12

Estimates Made on Every Description
of New and Old Work

Ballard Dry Dock & Ship Building Co.

SHIPWRIGHTS, CAULKERS AND SPARMAKERS

SHIPBUILDERS AND DESIGNERS

MARINE ROLLER RAILWAY AT BALLARD.

OFFICE: Basement Mutual Life Bldg.

SEATTLE, WASH.

J. H. STACK

R. T. WARD

PHONES { Sunset Main 1081
Independent 158

STACK & WARD

*Marine Plumbing, Steam Fitting
and Jobbing*

REPAIRING A SPECIALTY

106 Washington St.

Seattle, Wash.

TABLE OF CONTENTS

Title	9
Preface.....	11
Officers of M. E. B. A. No. 38.....	13
Seattle members	15
M. E. B. A., No. 38, members.....	15-33
San Francisco members.....	35-79
M. E. B. A., No. 35, members.....	35-79
Portland members	81-83
M. E. B. A., No. 41.....	81-83
Astoria members	85
M. E. B. A., No. 70.....	85
Pacific Coast Vessels.....	87-159
Vessels of Pacific Coast.....	87-159
American Society of Naval Engineers.....	161
Society of Naval Architects and Marine Engineers....	163
Dry Docks of Pacific Coast.....	164
Pacific Coast Dry Docks.....	164
Steamships and Transportation Companies.....	165-169
Business Classifications	171-177
Classifications of Marine Business.....	171-177
Washington Coal Output.....	179
Coal Output.....	179
Coal Agents	179
Marine Boilers	180-189
U. S. Battleship Nebraska.....	190-193
Nebraska, U. S. Battleship.....	190-193
Patent Piston Valve.....	195-197
Piston Valve	195-197
Illustrations of Ships.....	199-209

JOHN H. McGRAW

GEO. B. KITTINGER

Marine Insurance

ROOM B, BAILEY BUILDING

Phone Main 695

SEATTLE, WASHINGTON

KRUSE S. S. LINE

FOR SAN FRANCISCO

S. S. J. S. Kimball January 3

S. S. Chas. Nelson January 10

PACIFIC PACKING AND NAVIGATION CO.

FOR VALDES and Way Ports

S. S. NOME CITY

S. S. SANTA ANA

S. S. EXCELSIOR

First Sailing for Nome in 1903

S. S. NOME CITY — April 5

For rates and other information apply to

PACIFIC CLIPPER LINE, Agents

Phone Main 1147

618 FIRST AVENUE

INDEX TO ADVERTISEMENTS

Acme Forge Works.....	118	Markey, H. W.....	170
Adair, Geo. B & Son.....	56	Marvin & Co., E. B.....	58
Alaska Co.....	52	Marine Iron Works.....	64
Albion Iron Works Co., Ltd.....	46	Marine Pub. Co.....	4
Allen & Ballord.....	210	Mason, Fenwick & Lawrence....	44
Allmond, Chas. H.....	100	Merrick, F. W.....	78
American Linde Refrigerating Co	28	Miles & Piper Co., Z. C.....	106
American Steam Packing Co.....	82	Mitchell, Lewis & Staver Co....	88
Ashton Valve Co.....	16	Moe, J. C., Steamboat Co.....	200
Atlantic Refining Co., The.....	20	Moore, Chas. C.....	
Audel & Co., Theo.....	4	.....inside back cover	
Babcock & Wilcox.....		Moran Bros. Co.....	34-102-176
.....Inside front and back cover		Monrowe & Beckwith.....	132
Ballard Boiler Works.....	56	New York Life Ins. Co.....	24
Ballard Dry Dock & Shipbuilding		Northwestern Iron Works.....	3
Co.....	110	Northwestern Imp. Co.....	50
Bannan, James.....	5	Ollard Iron Works.....	76
Barnes, Pierre & Co.....	30	Pacific Packing & Nav. Co.....	212
Black Diamond Coal Mn'g. Co....	200	Pacific Coast S. S. Co.....	120
Bloomsburg, H. & Co.....	6	Pacific Coast Co.....	126
Breear & Son, S. D.....	42	Peerless Rubber Mfg. Co.....	48
British Columbia Marine Railway		Pessemier, C. M.....	5
Co., Ltd.....	54	Penberthy Injector Co.....	12-80
British Columbia Salvage Co., Ltd	54	Puget Sound Boiler Works.....	76
Bonney & Stewart.....	96	Puget Sound Boiler Works.....	
Campbell & Sons, Wm.....	70	(Tacoma).....	52
Canadian Pacific Railway.....	215	Puget Sound Machinery Dept....	198
Carbon Hill Coal Co.....	178	Puget Sound Metal Works.....	
Chase Machine Co., The.....	44	.....Back inside cover	
Chas. L. Seaburg & Co.....	36	Puget Sound Iron & Steel Co...	112
Chicago Pneumatic Tool Co.....	62	Puget Sound Dry Dock & Ma-	
Chilberg, A.....	200	chine Co.....	86
Clark, Miller Co.....	70	Perkins, James H. & Co.....	124
Cook & Co.....	118	Pacific Clipper Line.....	9
Commercial St. Boiler Woks....	170	Queen City Boiler Works.....	130
Denny-Coryell Co.....	160	Railway & Steel Co.....	122
Dow Pumping Engine Co.....	20	Rainbow Packing.....	48
Dunham, Garrigan & Hayden Co.	2	Risden Iron Works.....	38
Elec. Engineering & Con. Co....	72	Roslyn Coal Co.....	94
Elliott Bay Tugboat Co.....	66	Schwabacher Hardware Co.....	32
Engineer's Supply Co.....	26-84-110-158	Seattle Hardware Co.....	114
Erickson & Wyman.....	132	Seattle Machine Works.....	38
Finn, John, Metal Works.....	10	Standard Oil Co.....	104
Firemens' Fund Insurance Co..	216	Standard Boiler Works.....	98
Friedman & Son, J.....	116	Shaw, C. M. & Co.....	72
Gale Creek Coal & Mining Co....	130	Slack & Ward.....	210
Garlock Packing Co.....	134	Sohl, Olson & Co.....	32
Gas Engine & Power Co.....	36	Spellman, D. B. Co.....	118
Goldstein Hat Co.....	114	Star Machinery Co.....	46
Good's Metal Works.....	60	Stewart & Holmes Drug Co.....	132
Gorham Rubber Co.....	82	Tacoma Brass & Machine Works	16
Great Northern Railway.....	216	Tacoma Steam Boiler Works....	42
Hallidie-Henshaw-Bulkley Co....	92	Tacoma Tug & Barge Co.....	90
Heffernan Engine Co.....	196	Tatum & Bowen.....	7
Herald Tailoring Co.....	22	Taylor Water Tube Boiler Co...	58
Hicks Mantel, Grate & Tile Co..	72	Tucker & Co., E. W.....	108
Honolulu Iron Works Co.....	68	Todd, J.....	76
Hopkins, Paul & Sons.....	56	United Engineering Co.....	14
Hunt, J. & B. Co., The.....	42	Vulcan Iron Works (S. F.)....	78
Hutton, A. F.....	1	Vulcan Iron Works.....	
Issaquah Coal Co.....	30	.....inside front cover	
Kilbourne & Clark Co.....	172	Variety Iron Works.....	74
McAllaster, E. L.....	92-162	Washington Iron Works.....	128
McCabe & Hamilton.....	128	Washington Rubber Co.....	40
McDearmon & Co.....	18	Westerman Iron Works.....	74
McGraw & Kittenger.....	112		

ALLEN & BALLORD

Naval Architects and Marine Engineers

Consulting, Designing and Superintending in all Branches and Types
of Marine Construction.

Special Attention given to Steam and Power Tests, Damage Surveys
and Oil Burning Installations

ARTHUR P. ALLEN

Marine and Mechanical Engineer

FORMER CONNECTIONS:

Neafie & Levy Shipbuilding Co., Philadelphia, Pa.
The Newport News Shipbuilding and Dry
Dock Co., Newport News, Va.
Union Iron Works, San Francisco, Cal.
Moran Bros. Co., Seattle, Wash.

WEBB R. BALLORD

Naval Architect

FORMER CONNECTIONS:

Bath Iron Works, Bath, Me.
Harlan & Hollingsworth, Wilmington, Del.
Union Iron Works, San Francisco, Cal.
Moran Bros. Co., Seattle, Wash.

OFFICES 104 NEW YORK BLOCK

Telephone Main 645

SEATTLE, WASH.

Port Madison and Dog Fish Bay Route

STR. RELIANCE

Leaves Colman Dock at 2:30 p. m. daily except Sunday, for

Port Madison
Bartold
Manzanita
Keyport

Rolling Bay
Seabold
Reservation
Pearson

and Paulsbo

Leaves Paulsbo at 6 a. m. Arrives at Seattle 8.30 a. m.

MOE BROS., OWNERS

Canadian Pacific

AND SOO LINE

SINGLE AND ROUND-TRIP TICKETS TO

St. Paul, Chicago,
New York, Boston,
Buffalo, Toronto.
Ottawa, Montreal
Winnipeg

AND ALL POINTS EAST

FIRST-CLASS AND TOURIST SLEEPERS

Between Seattle and St. Paul, Montreal, Boston
and Toronto.

ATLANTIC OCEAN TICKETS

E. J. COYLE,

A. G. P. A.,

VANCOUVER, B. C.

W. R. THOMSON,

609 First Ave., SEATTLE

Phone Main 209

Cash Assets, \$4,500,000.00

Policies made payable abroad if desired

Fireman's Fund Insurance Company

*Hulls, Cargoes, Freights, Disbursements,
Charters, Profits and Commissions
Insured at Reasonable Rates*

HEAD OFFICE, California and Sansome Sts. San Francisco

Special Agency Dep't for Puget Sound
202 Boston Block, SEATTLE, WASH.

Special Agency Dep't for Columbia River
103 Sherlock Bldg, PORTLAND, ORE.

BURNS & ATKINSON, Local Agents

TICKETS TO AND FROM ALL POINTS EAST, VIA

Through
Palace and
Tourist
Sleepers



Dining and
Buffet
Smoking
Library Cars

SHORT LINE TO

St. Paul, Duluth, Minneapolis, Chicago, and Points East

Daily Trains! Fast Time! Service and Scenery Unequaled!

For rates, folders and full information, call on or address

S. G. YERKES,

G. P. & T. A

A. B. C. DENNISTON,

G. W. P. A.

612 First Avenue, - Seattle, Wash.

VM 623 .N3 1903 C.1
1903 annual blue book of the M
Stanford University Libraries



3 6105 039 094 821

DATE DUE

DATE DUE			

JUN 1988

STANFORD UNIVERSITY LIBRARIES
STANFORD, CALIFORNIA 94305-6004

B. H. SEABURY
1532 Commerce Street, Tacoma
Phone Main 418

C. A. TABER

Puget Sound Metal Works

MANUFACTURERS OF

ANTI-FRICTION METALS, SOLDER

TYPE METAL and ZINC BOILER PLATES

NAVY METAL

A perfect bearing Alloy.
Specific Gravity, 7.19.
100 cu. in.
weigh 26 lbs.



WE ALSO MAKE THE
FOLLOWING BRANDS

"Imperial"
"Genuine"
"Dynamo"
"Ideal"
"Special"

AND

(NOS. 1, 2, 3 AND 4)

OFFICE RISDON IRON & LOCOMOTIVE WORKS,
SAN FRANCISCO, California, Feb'y 12, 1900.

Mr. B. H. Seabury, Tacoma, Wash :

DEAR SIR—I hereby certify that I have used the Navy Metal manufactured by you, very extensively in connection with work under my charge, and in each case have received nothing but good reports. Have used it on crank pins and main bearings of Marine Engines with satisfactory results, and in confirmation of same enclose order for 1000 pounds of your "Navy" babbitt.

Yours truly,

RISDON IRON & LOCOMOTIVE WORKS,
By Henry C. Tabrett, Marine Superintendent.

OTHER REFERENCES:

Fullon Engineering and Shipbuilding Works,
San Francisco.
Puget Sound Iron & Steel Works, Tacoma
Puget Sound Dry Dock & Machine Co., Tacoma.
Aldion Iron Works Co., Ltd., Vancouver Branch,
Vancouver, B. C.

Hoffman Engine Works, Seattle.
Steamers City of Puebla, Victorian, Mackinaw.
Mainlander, Defiance, New England, Fearless,
U. S. A. Transports, Sherman, Sheridan, Egbert,
Rosecrans, Hancock, Dix and many others.

"MANUFACTURED EXCLUSIVELY IN WASHINGTON"

CHAS. C. MOORE & Co.

ENGINEERS AND DEALERS IN

Motive Power Machinery

OF THE HIGHEST GRADE

MODERN STEAM SPECIALTIES

BABCOCK & WILCOX BOILERS

McIntosh & Seymour Engines

Hamilton Corliss Engines

N. Y. Safety Automatic Engines

Ideal Engines

Green's Economizers

WHEELER CONDENSERS

Hoppe's Live Steam Purifiers

Barnard-Wheeler Cooling Towers

GOUBERT FEED WATER HEATERS

STRATTON STEAM SEPARATORS

EDWARDS' AIR PUMP

SNOW STEAM PUMPS

Spencer Damper Regulators

Quimby Screw Pumps

Hyatt Roller Bearings

Feed Water Filters

Monarch Engine Stop

Geipel Steam Traps

Reilly Evaporators

CHAPMAN VALVES

LESLIE PRESSURE REGULATOR

*Contracting Engineers for Complete Steam Power
Plants of the Largest Sizes*

MAIN OFFICE: 32 FIRST ST., SAN FRANCISCO, CAL.

BRANCH OFFICES:

103 S. Broadway, Los Angeles, Cal.

218 Second Ave. S., Seattle, Wash.

SEND

RICHARD A. McDERMOTT,
PRESIDENT

SHERWOOD GILLESPIE,
MANAGER

Assets over \$380,000,000

Assets Grow From Nineteen Hundred and Twenty Million Dollars

—THE—
Mutual Life Insurance Co.
—OF NEW YORK—

THE LARGEST LIFE INSURANCE COMPANY IN THE WORLD
OFFERS SEPARATELY A WORLD WIDE PERMIT

—Write for Terms and Rates to—
SHERWOOD GILLESPIE, Manager

THE MUTUAL LIFE BUILDING
SEATTLE, WASHINGTON